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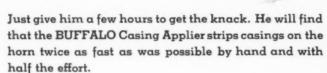


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# THE NATIONAL PROVISIONER

The Magazine of the Meat Packing and Allied Industries





Official Organ Institute of American Meat Packers

Volume 103

**OCTOBER 26, 1940** 

Number 17

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#### DAILY MARKET SERVICE

(Mail and Wire)

E. T. NOLAN

C. H. BOWMAN

Editors

The National Provisioner Daily Market Service reports daily market transactions and prices on provisions, lard, tallows and greases, sausage materials, hides, cottonseed oil, Chicago hog mar-

For information on rates and service address The National Provisioner Daily Market Service, 407 So. Dearborn St.,



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DRAMATIZATION Modern sales-psychology says, "Use pictures to project ideas." No wonder then, that smart package designers are turning more and more to the pictorial motif to sell the product in the container.

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Your Sausages will look plump and fresh in Armour's Natural Casings

● Elasticity is what gives silk stockings eye-appeal. And the elasticity of Armour's Natural Casings gives eye-appeal to sausages. Because they cling firmly to the meat – these superior casings make your sausages look plump, firm, and fresh always!

And Armour's Natural Casings are uniform and strong. Being porous, they permit great smoke penetration, giving you a better-flavored product. Just try them—we know you'll come back for more!

ARMOUR'S NATURAL CASINGS

# This Week's HIGHLIGHTS

#### Not All \$200 Monthly Men Wage-Hour Exempt

ALL "white-collar" workers making more than \$200 a month are not exempt under the re-definitions of "executive," "administrative" and "professional," announced recently, it was emphasized by Colonel Philip B. Fleming, Administrator of the Wage and Hour Division, U. S. Department of Labor.

Many questions on this point were received at the Wage and Hour offices following the announcement of the new definitions which became effective on October 24, the same day on which the standard workweek dropped to 40 hours under the law. Employes are not limited to 40 hours a week but must be paid time and one-half for all work in excess of that.

"Employers should examine the definitions we have just issued," said Colonel Fleming, "before coming to the conclusion that any of their employes are exempt from overtime payments because they are getting \$200 a month or more.

"The \$30-a-week clause in the definition for 'executive,' and the \$200-a-month clause in the definitions for 'administrative' and 'professional' employes (except doctors and lawyers) are accompanied by other clauses, the terms of which must be met.

"The number of inquiries coming to the division today on these changes leads me to point out that the clauses in these definitions are usually connected by 'and'—not 'or.' As a result, an 'executive' or 'professional' or 'administrative' employe must meet all of these tests before the employer can safely abandon keeping records of his hours and paying him time and a half for overtime. It is not enough to find that one of these clauses fits the employe in question."

#### DRAFTEES' PAY NOT WAGES

Payments made by employers to men in training under the Selective Service and Training Act, to supplement their military pay, are not considered as wages under the Illinois Unemployment Compensation Act, State Director of Labor Martin P. Durkin said this week.

# Census Shows Packers Increase in Number, Volume from 1937 to 1939

ORE meat was handled by packers in 1939 than in 1937, but there was a 5 per cent decline in the reported value of their products, according to preliminary returns of the Census of Manufactures for 1939.

Products leaving wholesale meat packing and custom slaughtering plants had a total value in 1939 of \$2,649,292,-810, against \$2,787,357,940 in 1937.

There was a 6.7 per cent decline in the cost of materials, supplies, fuel, purchased electric energy, and contract work, from \$2,386,090,468 in 1937 to \$2,226,188,793 in 1939. Average live cost of livestock to packers was 7.3 cents per pound for cattle, 8.3 cents for calves, 8.4 cents for sheep and lambs, and 6.8 cents for hogs.

The decline in total value of the industry's product is distributed between cured meat, hides, skins, and pelts, etc., rather than fresh meat.

#### More Fresh Meat

Total poundage of fresh meat produced was 10,986,542,475 in 1939, against 9,956,376,142 in 1937. Its value rose from \$1,418,729,527 in 1937 to \$1,461,503,595 in 1939. One type of fresh meat showed a fall in both poundage and value. Veal production was 778,776,802 lbs., in 1937, with a value of \$105,086,001. In 1939, it dropped to 677,095,848 lbs. valued at \$97,978,482.

Beef continued as the leading commodity, with 1939 poundage of 5,483,-464,318 valued at \$765,861,914, compared with 5,235,563,960 lbs. valued at \$710,531,368 in 1937.

Pork production ranked second, increasing from 2,519,146,851 lbs. in 1937 to 3,347,022,945 in 1939, but value dropped from \$415,525,668 to \$408,309,991.

Poundage of mutton and lamb went

up from 775,211,413 to 781,822,476, but value fell off from \$128,270,281 to \$126,-442,118.

Edible organs, such as livers, hearts, brains, tongues, tripe, etc., increased from 631,141,759 lbs. to 678,375,030, with a rise in value from \$57,989,923 to \$61,626,425.

Total poundage of other fresh meat was 18,761,858 in 1939, compared with 16,535,357 in 1937, but value declined from \$1,326,286 to \$1,284,665.

#### **Cured Meat Value Lower**

Cured meat increased in poundage from 2,388,831,440 to 2,918,775,151, but dropped in value from \$503,881,461 to \$450,941,527.

Smoked pork, pickled and dry-cured, was the biggest item in this category, with a 1939 poundage of 1,353,900,231, valued at \$242,881,507. This compares with 1937 poundage of 996,065,821, valued at \$235,530,519.

Pickled and dry-cured pork that was not smoked amounted to 707,678,211 lbs. in 1939, against 641,763,910 in 1937, but value dropped from \$118,556,833 to \$95,478,932. Production of pork that was dry-salted, but not smoked, totaled 561,001,189 lbs. in 1939, a gain over the 1937 poundage of 430,527,199. Value, however, dropped from \$64,072,256 to \$41,183,334.

There was a fall in poundage of drysalted, smoked pork from 114,833,686 to 87,214,954, with value declining from \$24,268,086 to \$13,936,919.

Pickled and other cured beef had a total poundage in 1939 of 67,294,508, compared with 71,425,708, but value rose slightly, from \$15,018,947 to \$15,021.856.

Cooked hams prepared in packing and slaughterhouses increased in poundage from 134,215,116 to 141,686,058, but de-

Such payments need not be reported to the Division of Placement and Unemployment Compensation, and no contributions need be paid on remuneration in this category.

"Many Illinois employers are adopting the policy of supplementing the

military pay of employes who are called for training," said Director Durkin. "In some cases, they match the amount paid by the government, and in other cases pay the employe the difference between his military pay and the amount he was receiving in his civilian occupation." clined in value from \$46,434,820 to \$42,-438,979. In addition, cooked hams produced in other industries were reported for 1937 in the amount of 78,921,378 lbs., valued at \$23,053,141. The comparable figure for 1939 will be included in the final meat packing report.

The industry produced 330,769,439 lbs. of canned meat in 1939, compared with 240,767,016 lbs. in 1937, and value rose from \$48,182,856 to \$63,348,362. Of the 1939 total, 247,557,315 lbs. were vacuum-cooked with a value of \$46,-281,041.

Poundage of canned sausage increased from 26,604,334 in 1937 to 27,-114,071 in 1939, but value fell from \$5,714,688 to \$5,367,578.

Sausage other than canned, meat puddings, headcheese, etc., aggregated 1,034,730,943 lbs. in 1939, against 988,968,250 in 1937, but value dropped off from \$174,934,695 to \$166,007,147.

Sausage casings produced by the industry had a total value of \$11,940,891 in 1939, a drop from the 1937 figure of \$16,143,700. Of the 1939 total, hog casings accounted for \$6,266,331, sheep and lamb casings \$3,516,657, and beef casing \$2,157,903.

#### More Lard-Value Lower

Lard poundage rose from 1,034,927,-606 to 1,551,743,480, but value dropped from \$126,331,478 to \$107,376,837.

Dog and cat food produced in this industry increased from 150,319,869 lbs. in 1937 to 158,084,501 in 1939, with a rise in value from \$8,383,863 to \$8,872.750.

Oleo oil poundage fell from 67,738,829 to 66,324,904, with a decline in value from \$7,533,268 to \$4,550,547. Poundage of oleo stock dropped from 10,098,335 to 7,091,400, with a decrease in value from \$946,230 to \$506,882. Stearin production fell from 30,982,111 lbs. to 28,343,336, with a loss in value from \$2,796,223 to \$1,701,608.

The report also includes statistics on output and value of livestock by-product feed materials and fertilizer materials, hides, skins, pelts, wool, and animal hair.

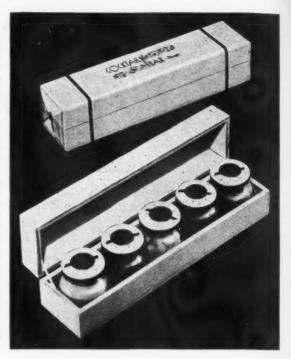
The 1939 operations of 1,516 establishments were covered. They employed 120,467 wage earners in work other than distribution and construction, with a payroll of \$162,180,141. Salaried personnel numbered 17,156, with earnings of \$40,002,900. Only 40 of the total number of establishments were primarily engaged in custom slaughtering for others.

#### **ANNUAL CONVENTION ISSUE**

Next week's issue of THE NATIONAL PROVISIONER, dated November 2, will carry complete reports of the thirty-fifth annual convention of the Institute of American Meat Packers, held at the Drake hotel, Chicago, October 18 to 22. Convention exhibits, personalities, social activities and the informal as well as the official side of the convention will be graphically depicted in the large, profusely illustrated convention issue.

#### ONE SALE— FIVE UNITS

Meat packers producing canned or bottled items might well take a cue for stepping up sales from this combination package used by Knight Packing Co., Portland, Ore., packers of mustard, onions, maraschino cherries and other accessories to a well. rounded meal. Made of Oregon pine, the container houses five jars of Knight's products and has found a ready market at cocktail bars, in hotels and in groceries serving better class districts. The package received a 1940 award for combination units. Cocktail frankfurts and sausage, liver sausage, meat pastes and spiced pork items are among the products lending themselves to similar treatment.



#### PACKAGE COMPETITION

Once again, under the auspices of Modern Packaging, the annual All-America Package Competition takes form to reflect the past year's latest and most ingenious developments in the creation of new packages, new displays and new machinery installations. A special drive is now on to encourage entries in an effort to far exceed the 30,000 packages submitted last year.

Entry is open to all designers, package suppliers, machinery manufacturers, package-using firms and others responsible for the creation of the package or display. There are no restrictions regarding the number of entries that may be submitted. Any package, display or illustration of packaging machinery installation, which has reached the market or has entered production during the calendar year of 1940, is eligible for entry.

Various phases of the packaging industry will be well represented in the twenty broad classifications which have been set up: 1) folding cartons; 2) collapsible tubes; 3) fibre cans; 4) glass containers; 5) metal containers; 6) setup paper boxes; 7) plastic containers; 8) machinery and equipment, class A; 9) machinery and equipment, class B; 10) counter or shelf displays; 11) floor displays; 12) window displays; 13) shipping containers; 14) family group; 15) wraps, bags, envelopes: opaque; 16) wraps, bags, envelopes: transparent; 17) labels and seals; 18) closures; 19) rigid transparent containers (other than glass) and 20) miscellaneous con-

The task of selecting three major award winners within each group will be handled by a fully qualified board of judges. The board is representative of art, industry, merchandising and the consumer, and its decisions will reflect sound knowledge, as well as a true perspective of the packaging industry.

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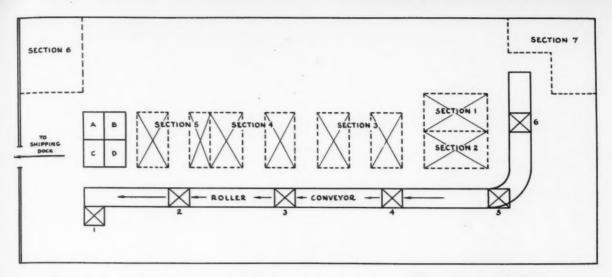
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The current competition closes on January 6, 1941. Major winners and honorable mentions will be announced in the March, 1941, issue of Modern Packaging. Award plaques, which symbolize the highest single achievement in the field of packaging will be officially presented to the winners at a banquet in Chicago some time in April.

#### AMERICAN ROYAL SHOW

Cattlemen in high heel boots and trim drum majorettes will be one of the many contrasts to greet guests at the forty-second American Royal Live Stock show in Kansas City, November 9 to 16. Live-stock exhibitors will show approximately 5,000 animals in competition for over \$70,000 in cash awards. Junior exhibitors are expected to enter record breaking numbers of calves, swine and lambs. Adult exhibitors will show individual breeding cattle and fat steers, carlot fat and feeder cattle, breeding hogs and fat barrows, carlot hogs, breeding sheep and fat lambs.

The opening day parade will be led by Leo Carrillo, motion picture actor, and his famous parade horse. Winner of the title "Queen of the American Royal" will be presented at coronation hall at the Municipal auditorium. Last year's winner was from Oklahoma. As a new feature, at the first two night performances of the horse show, one hundred drum majorettes will perform as a unit. The U. S. Second Cavalry Dragoon ride will be seen at all performances.



# Conveyors for Efficiency in Order Filling

By R. E. HOFFER

Industrial Engineer

THERE is a definite opportunity to reduce costs in the shipping rooms of a large percentage of smaller meat packing plants. Many packers overlook the possibility of saving money in this department.

A highly competitive industry, such as meat packing, cannot afford to disregard cost cutting opportunities, particularly in connection with operations which are performed day in and day out. Savings can usually be made in the shipping department by the elimination of waste motion and unnecessary trips for "short" items, and the substitution of other methods for the "caller" system or "individual" system of order filling.

Companies in which order filling is a major activity, such as mail order houses, have become highly efficient in it. Their order filling technique is the result of scientific study aimed at the design of efficient layouts, stock classifications and bin and shelving arrangements. They have learned how to handle shortages and control the filling of orders on time schedules.

#### **Shipping Room Improvements**

Certain of the larger packers have efficient mechanical lines for assembling, packing and shipping lard, oleomargarine, dog food and other standard container products. Other packers have improved their shipping rooms through the installation of air conditioning, order accumulation bays and the separation of truck and carload shipping. Some plants use light signal systems and open call systems between the shipping rooms, accumulation rooms, docks and plant trucking department. These latter improvements save much time for department foremen, telephone operators and shipping room supervisors.

However, development of really efficient shipping room procedure has been rather slow in a great many packing plants and the industry as a whole lags behind others in this respect. In fact, it might be said that the meat packing industry is somewhat closed to outside developments and hesitates to make changes which would cut costs. Some operating methods have been in use for many years without serious attempts being made to reduce waste motion, useless walking and other unproductive labor.

A high percentage of the operations which are not controlled by a conveyor chain or table are noticeably unde-

#### L-CONVEYOR LAYOUT

LEGEND: 1 is check scale, while 2, 3, 4 and 5 are station scales; A, B, C and D are truck skids. Section 1 is for fresh cuts; Section 2, dry salt products; Section 3, sausage; Section 4, wrapped hams, loaves, etc.; Section 5, produce, boxed bacon and vinegar pickled goods; Section 6, peddler orders, and Section 7, empty container storage.

veloped and show considerable room for improvement. The filling of orders in the shipping room is a conspicuous example.

While the primary object of this article is to suggest improvements in shipping room procedure, principally through adoption of a conveyor system, it may be pointed out that various plants are using conveyors for departmental packing lines. Wrapped or unwrapped items which are packed in standard quantity or standard weight containers are passed over a conveyor scale to check them to a desired weight. This plan is not new, but is being used more widely and will be found in new plant and new departmental layouts.

Contrast the conveyor equipped with a scale in line and a section for closing the shipping containers, with the haphazard methods used in some plants. In these latter cases the containers may be packed at apparently convenient locations (which may or may not be adjacent to a scale and sealing or banding machines). The containers must be lifted to a truck, placed on a scale, removed and reloaded on a truck, unloaded, stitched or sealed and then trucked to a cooler or shipping room.

Consideration must be given to the loading and unloading ends when a conveyor is used. Delivery to the conveyor can often be accomplished by means of a chute or by a division in transporting conveyor. Delivery to storage can sometimes be made by an extended conveyor or floor chute rather than by use of trucks. In some cases deliveries can be made directly to the accumulation or shipping room by conveyor or chute connections with the packing conveyors in the various processing departments.

The order filling conveyor plan which will be described here is recommended for replacing the "caller" system, or the complete preparation of a customer's order by one order filler.

Conveyor equipment and product bin arrangement will vary according to the layout and the amount of floor space available. Some shipping rooms can be arranged so that a straight line conveyor can be installed, while others must use a conveyor of "L" or "U" design. The length may vary from 40 to 60 ft., depending on the volume and number of products handled.

Products should be classified, grouped and arranged in stations along the conveyor. Each station or order filling division should be equipped with well-designed product racks or containers with capacities of at least 50 per cent of daily requirements. In general, each station should be equipped with a hanging type scale, a wrapping table and paper cut to a size adaptable to the products being wrapped. Space must be allocated at the first station for

empty boxes or shipping containers.

After the conveyor layout has been made and the products properly arranged, consideration should be given to a pre-printed order form. This form has the items printed in the same sequence as they are found along the conveyor line. Plants which have an average of 20 or more items per order will find the pre-printed form a time-saver. However, if the average number of items per order is six or fewer, the standard order form will be found satisfactory since there should be no delay in reading low item orders.

#### Pre-Printed Order Form

Here is how the system works. New orders are reviewed by the shipping room supervisor to spot shortages and orders containing "short" items are held up until the product is in the shipping room. After reviewing the orders, the supervisor gives them to the order filler at the first station on the conveyor line.

The first station should contain fresh meat cuts and offal items so that these can be placed in the customer's box first to avoid drainage on other product. The first order filler places the empty box on the conveyor, selects the products called for by the order, weighs them, records the weights on the order blank and then moves the box to the next station via the conveyor.

The second station order filler repeats the process of selecting and weighing the items located in his section, records the weights and pushes the container to station number three.

In the event that dry salt items move in sufficient volume, these might be included in the second station group. All dry salt meats should be wrapped carefully to prevent the salt from falling on other items in the order.

#### **Product Grouping**

Other stations or sections may be set up to fill orders for the following products:

Sausage

Franks and chili

Wrapped hams, meat loaves, smoked butts and boiled hams

Produce items

The character of the packer's business and the volume in which each product moves will largely determine the grouping and the station location.

A check scaler with a platform scale should be located at the end of the conveyor to check items and gross weight for the completed order. This operator should seal or band the container. The job of placing the checked order on a truck skid or truck, and delivery to the truck dock, can be performed by the check scaler on low volume days. He will need assistance during heavy volume periods.

Plants which are not bothered with shipping room shortages can issue the orders to the first packing station in truck route sequence so that the truck

#### LIVING COSTS RISE

The cost of living of wage earners' families in the United States, after declining for two months, rose 0.5 per cent from August to September, according to the monthly survey conducted by the division of industrial economics of The Conference Board. Increased costs of all the major items of the wage earner's budget caused this rise.

Food prices, which rose 1 per cent from August to September, were the same as during September, 1939 and were only slightly lower than during June and July of this year when they attained their 1939-1940 peak. Compared with the depression low of March, 1933, food prices advanced 32.1 per cent but they were 26.8 per cent lower than in September, 1929. Rents, clothing, fuel and sundries also advanced in price during the August to September period, according to the survey.

#### NEW LARD RULING PASSED

A new regulation prohibiting trading in lard futures during the last seven days of the month in which deliveries are to be made was passed at a recent meeting of directors of the Chicago Board of Trade. The regulation 1837, which becomes effective in all lard contracts for delivery after November 30, reads as follows:

"No trades in lard futures deliverable in the current month should be made during the last seven business days of that month, and such contracts may be settled by delivery after trading in such contracts has ceased and if not previously delivered, delivery must be made upon the last business day of the month."

driver will not have to sort out and route the orders when he is loading the delivery truck.

A change over from the "caller" system to the conveyor method has brought savings in shipping room costs ranging from 20 to 50 per cent. The reduction in expense, more efficient and rapid utilization of motor truck loading facilities and earlier deliveries to dealers, more than repay the packer for rearranging his shipping room and installing conveyor equipment in it.

In closing it may be pointed out that without proper cost control the management cannot know whether shipping room costs should be 5c or 20c per 100 lbs. of product shipped. Costs can be maintained at a lower and more uniform level by means of correct standards and proper control.

The speedy receipt of orders in the order department from the salesmen or order clerks, and the dispatch of these orders to the department or shipping room without delay, are also important factors in efficient shipping room operation. Delays in shipment are often caused in the order division rather than in the shipping department.



#### SMOKED TURKEY IN NEW FORM

Container and red, white and blue counter card being used by Pinesbridge Farm, Ossining, N. Y., to introduce smoked turkey in pate form. Container and card are word of Gustav Jensen, packaging expert. The new product will sell at 65c for the four-oz. jar. Developed by Pinesbridge Farm, smoked turkey has previously been available only by the whole bird (seven lbs. minimum) at \$1.35 per lb.

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#### QUICK FREEZING IN GERMANY

American techniques for quick freezing are being studied and adopted in Germany, according to a recent report to the New York Times. One of the chief reasons for introduction of preservation by freezing is said to be a scarcity of metals and glass, now needed for wartime purposes.

The Reich Institute for Food Preservation, at a recent meeting, described the results of experiments with quick freezing as most satisfactory. "A number of varieties of fruits and vegetables have been found highly suitable for preservation by this means," it was reported.

Further developments in quick freezing technique are to be pressed rapidly. The problem of transporting the foods to the consumer after freezing is receiving special attention.

#### FINANCIAL NOTES

United Stock Yards Corp. has been authorized by the Securities and Exchange Commission to withdraw its 7 per cent cumulative preferred stock from listing on the New York Stock Exchange. The company had sought to delist the stock because it declared that a broader market would exist for it exclusively in the over-the-counter markets. The order becomes effective November 15.

A dividend of 20c a share on the common stock has been declared by Mickelberry's Food Products Co., payable December 20 to stockholders of record on December 2.

# CHEMISTS REVIEW FINDINGS ON RANCIDITY AND OXIDATION

BY C. ROBERT MOULTON

Consulting Editor, The National Provisioner

I.

ALL meat packers who manufacture lard or other edible fats are interested in the subject of rancidity because their products must compete with other shortenings in respect to keeping qualities. While it is true that special products, with properties that meet the particular needs of some special use may have a part of the field to themselves, the manufacturer of lard cannot afford to let this happen too often.

Lard must meet the challenge of other fats over a great part of the field if it is to retain its rightful place. Consequently, all packers should know more about the unfavorable changes which may take place in a fat during use, or on its way to the ultimate consumer in some finished baked or fried product.

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No one knows this better than the chemists who attended the symposium on "Oxidation, Rancidity and Flavor Reversion of Fats and Oils" which was a feature of the recent convention of the American Oil Chemists Society. The convention was held on October 2, 3, and 4 in the Stevens Hotel in Chicago.

While all of the papers were of great interest to the oil and fat chemist, some were too technical for review in this brief summary, which is presented for the information of the meat packer who may not be acquainted with chemistry.

#### MECHANISM OF OXIDATION

The first paper by Dr. H. A. Mattill of the State University of Iowa on "The Mechanism of the Oxidation of Fats" discussed the processes which occur in fats which are undergoing the oxidation changes resulting in rancidity. He reminded the audience that the oxidation of edible fats proceeds by a process classed as autocatalysis or self-promoting. The process shows an induction period during which oxidation may occur but no rancidity is apparent.

After this preliminary period, there is a final speeding up of the changes which culminate in rancidity. Dr. Mattill further discussed the chemical compounds formed during the process, some of the factors which speed it up and methods of measuring its progress. The chemist interested in fats will do well to read the complete paper which will appear with the other papers delivered at the symposium in a forthcoming issue of the Society's official publication, "Oil and Soap."

#### CONTROL OF RANCIDITY

The second paper by Mayne R. Coe of the U. S. Department of Agriculture was a discussion of "Factors which In-

crease the Rate of Oxidation of Fats and Oils." He pointed out that the primary factors known to speed up oxidation are metals and light. Contributory factors include air, moisture, temperature and photosensitizers. Copper, iron, nickel, cobalt, chromium and manganese are metals which accelerate the process, while tin and aluminum are inactive.

Copper in so low a concentration as two parts per million in the fat will cause rancidity, while 200 parts of tin or aluminum per million show no activity. For this reason vessels containing copper should not be used in the manufacture or cooking of edible products. Heavily tinned vessels are safe, but must be re-tinned frequently to keep the copper covered.

Light also speeds up the development of rancidity, and the change is not confined to that part of the light which is in the violet region of the spectrum. While it is true, Mr. Coe stated, that ultra-violet and violet light is the most active part of light, the blue, yellow and middle visible red also are rather effective. Other regions of the spectrum are of still less effect.

He reported some experimental results using equal intensities of light of different wave lengths. Under the conditions of his experiments, which involved cool temperatures, violet light gave rancidity in 73 days while the next most active wave length resulted in slight rancidity in the same time. Many of the less active bands gave rancidity at the end of 133 days, and the least active parts of light resulted in slight rancidity.

He recommended the exclusion of all light during the storing of fats. This procedure would make it impossible to display adequately fats and oils, but safety lies in providing protection from light.

#### USE OF ANTIOXIDANTS

H. S. Olcott of the Mellon Institute of Research talked about "Antioxidants for Fats and Oils." Various chemical substances are being tried out as preventatives of rancidity in fats, and several patents covering the use of specific antioxidants have been granted by the U. S. Patent Office.

Antioxidants are substances which, when used in relatively small amounts, prolong the induction period and so delay rancidity. Some research reported by Dr. Mattill in 1924 showed that when lard was added as one of the ingredients of a mixture used to feed laboratory animals, the diet became deficient in vitamin E. Further work demonstrated, on the other hand, that when a good source of vitamin E was added in sufficient quantity to the diet, its stability toward oxidation was increased.

Mr. Olcott then reported a study of the effects of antioxidants on the absorption of oxygen when lard was stored at 75 degs. C. About 0.02 per cent of various inhibitors was used in the lard. A most active group of antioxidants were those products known to the chemist as polyphenols. It was shown that pyrogallol, hydroquinone, catechol, apinol and hydroxy hydroquinone were most active as antioxidants, while resorcinol and phloroglucinol were much less effective.

It seems that the hydroxyl group (OH) must be uncombined and attached directly to an aromatic ring in order to exert its effectiveness. In the case of benzene, two or more OH groups are required. Some fifteen phenolic compounds were studied, and it was found that the most easily oxidized ones were the most effective antioxidants. The meat packer will balk at reading the above jaw-breaking names, but his chemist may well get an idea about antioxidants for lard from this list.

It was of interest to find that the tocopherols (the vitamin E group) were good antioxidants. Other types of products were also studied. Among these were acids. Most mineral acids were shown by this study to be ineffective, but sulphuric acid and phosphoric acid were good inhibitors in the case of such vegetable oils and fats as cottonseed oil and its products. The group referred to in the above paragraph, called "inhibitols" by Mr. Olcott, were good inhibitors for lard but not for vegetable fats and oils. Certain organic acids were also effective inhibitors of rancidity. Among these was vitamin C (known as ascorbic

Lecithin and cephalin were also found to be active antioxidants. These are animal products, and nervous tissues such as brains and spinal cord are fairly rich in them. Their activity is partly due to the phosphoric acid contained as part of their molecules.

A third type of antioxidant was also discussed. One interesting fact brought out was the augmenting effect of two different types of antioxidant when used together. Thus, when an inhibitol was used with an acid type, the antioxidative effect was greater than that shown by adding the individual effects of the two products. One promoted the other. Thus ascorbic acid (vitamin C) and alphatocopherol (vitamin E) could be used together as antioxidants with telling effect.

Mr. Olcott then spoke about various patents covering the use of antioxidants in fats. The old patent of Bollman used lecithin. Other patents dealt with the use of cephalin or various parts of its complex molecule. Still others used gum guaiac. Some fifty Musher patents rely on such products as specially prepared oatflour (Avenex) for their potency. Cereal and other seeds have been studied, but there is still opportunity for much work in this field.

Mr. Olcott did not refer directly to a new type of bland lard now being experimentally marketed by a meat pack-

(Continued on page 32.)



# Stainless Steel Has Many Unique, Useful Properties

PACKERS and meat plant engineers and master mechanics are well aware of the corrosion-resisting qualities of stainless steel; they specify this alloy for tables, benches, equipment and utensils which must be kept spotlessly clean, or which are subjected to corrosive influences.

However, many may not know that stainless steel has qualities, in addition to corrosion resistance, which make it an ideal substitute for black and wrought iron, steel and cast iron for many packinghouse purposes.

The qualities of stainless steel, and its uses and advantages in industrial plants, are enumerated in Volume 6, Number 2 of Chemical Digest, published by Foster D. Snell, Inc., chemical engineers of Brooklyn, N. Y.

Stainless steel is much more than a corrosion-resistant metal, the article says. Although it is featured for its resistance to rust and other forms of corrosion, its present extensive use is based on more than its stainlessness.

#### Other Valuable Properties

Gold is immune to most forms of corrosion, but if gold were as inexpensive as stainless steel, it still would not and could not be used in many of the applications for which stainless steel is specified. Stainless steel has a combination of desirable properties not equaled by gold, by ordinary steel or by any of the other familiar metals.

In addition to its resistance to oxidation and corrosion, stainless steel has strength and toughness at high temperatures; it is wear-resistant; it can be polished to a bright luster; and it has interesting optical and magnetic properties—a wealth of features fully as important as chemical resistance. Stainless steel is one of the most useful alloys ever developed for industry.

The high strength-weight ratio of stainless steel is a feature which ac-

counts for a majority of its applications. Stainless is a rather dense metal, having a higher specific gravity than many common non-ferrous metals, which it exceeds in strength. This is one of the reasons why stainless steel is now used in lightweight streamlined trains and airplanes. It can be formed into thin walled, box-type beams which have great structural strength and rigidity. Stainless steel is also being used more and more in truck bodies. The satisfactory results obtained in welding this material have also led to extensive use in vehicle construction.

#### **Architectural Applications**

Architecture is another field in which the high strength-weight ratio of stainless steel is important. One interesting example of such use is a stainless steel fire escape on the front of a business building; not only does the fire escape present an attractive appearance, but its strength is permanent since it will not be weakened by corrosion.

Favorable strength-weight ratio per-

mits use of pleasing design; no cumbersome members are required. Thin-walled stainless steel members are also found useful for flag poles and ship masts. Additional marine applications, requiring resistance to corrosion coupled with unusual strength, include propellers, cables and anchors.

In many instances stainless steel has been selected as much for its strength and toughness as for its rust-defying permanence. For example, it is used in bank vault construction where, in addition to its attractive appearance and ease of maintenance, it is a reliable material for protecting the valuables in the vault. It has the interesting property of "work hardening," which helps it to resist the burglar's drill and hack saw.

In a contrasting field, stainless steel is used in the baskets of centrifuges. The perforated barrel unit of the centrifuge revolves at high speed and utilizes centrifugal force to filter liquids through the perforations. In this separation of liquids from solids, the centrifugal force of the solid matter against the wall of the revolving container may exceed many hundreds of pounds per square inch. The ruggedness of stainless steel is as valuable as its inherent resistance to corrosion for such applications.

The property of resistance to severe abrasive action is well illustrated by the use of stainless steel studs as road markers—the type used to indicate pedestrian lanes and the crowns of highways. Studs remain bright and visible, even on routes subjected to continuous heavy trucking.

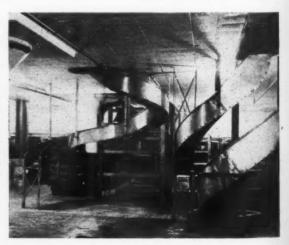
One of the common miscellaneous uses of stainless steel is in hangers for ventilating ducts or pipes. Consideration must be given to heat resistance in the selection of hangers, since some pipe hangers, or anchors, must be capable of resisting temperatures of over 1,000 degs. F. Provision must sometimes be made against attack by corrosive agents associated with the operation of particular plants, as in the process industries.

Ordinary steels are likely to lose their strength at high temperatures, and plain cast iron becomes subject to a deformation known as "growth." Stainless steel is also an excellent material for high-

(Continued on page 32.)

#### STAINLESS STEEL CHUTES

The meat packing industry puts gravity to
work wherever possible
for moving products
from one floor level to
a lower one. Most of
the straight and spiral
chutes in use in meat
packing and sausage
manufacturing plants
are fabricated of stainless steel.



# PRAGUE POWDER

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#### ARTERY PUMPED SWEET PICKLE HAM



It is our intention to say Prague Powder Pickle is more quickly absorbed than ordinary pickle in the Arteries.

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Make and sell a sweet pickle ham. You can make a dryer ham by using our *DRY RUBBING MIXTURE*—See page 16 of the Prague Booklet.

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Our Prague Powder Cure leads the way. Most packers now use our artery pumping method, our Prague Powder Pickle for pumping and our Dry Rubbing Mixture (on page 16—Prague Booklet). We are proud of the Prague cures. Every packer likes PRAGUE POWDER.

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JOHN KERN & SON, Portland, Maine, specialists in native pork, beef, and veal, chose dependable Novoid Corkboard to insulate a sales cooler, beef cooler, and a curing cellar. This installation, like others throughout the country has proved highly satisfactory in every respect.

Leading packers know from experience that they can rely on Novoid Corkboard for complete protection of stored meats. And they know, too, that this pure CORK insulation saves them money. Novoid forms a lasting, effective barrier to the passage of heat that saves costly refrigeration. It is highly resistant to moisture and thus, when properly installed, keeps its insulating efficiency for years. Convenient board sizes with strictly uniform edges make Novoid quick and inexpensive to erect. Mail the coupon below for the complete, money-saving story.

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#### MAIL COUPON FOR FULL DETAILS

Cork Import Corporation, 330 W. 42nd St., New York City

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Name\_

Street

City and State\_



HOW TO EQUIP AND OPERATE ROOM IN THE TYPICAL

The first aid room in the small meat plant need not possess such complete facilities as are pictured here. A simple set-up will do the job.

EQUIPMENT and maintenance of packinghouse first aid rooms and departments follow, in general, along lines governed by the size of the plant. The large packers, for the most part, are found to possess complete and extensive equipment and personnel.

In the small plant there is less of a general standard for first aid facilities. This is not to say that the small packer fails to recognize the importance of employe welfare; it is due, in general, to the fact that small packinghouses have fewer serious accidents to dramatize continually the need for first aid equipment.

However, because there are fewer cases of a serious nature, the statistics showing the high frequency of "minor" accidents in small plants, and the absolute importance of these small accidents, should not be ignored. These "minor" injuries are the enemy of efficiency and cost the packing industry untold sums each year in lost labor time and compensation claims. For every industrial accident serious enough to cause a loss of time beyond the shift in which the accident occurs, there are about 300 "no time lost" injuries.

#### Disabilities Can Be Stopped

It is this "minor" type of accident which furnishes the danger of temporary disability through infections, etc., and it is this type of accident which can be controlled, as far as later complications are concerned, through a first aid department. In the years since the advent of workmen's compensation laws, this factor has become doubly important, especially in those states having experience ratings.

A number of state labor laws contain provisions governing the minimum first aid facilities to be maintained in industrial establishments. In a majority of these state laws there is little of a concrete nature beyond a statement that first aid shall be administered to injured workers. While some states have specific requirements for certain industries, in no case is there specific mention of

the packing industry. It is covered by some state acts, however, which require all manufacturing concerns having more than five employes using power machinery to conform to certain standards set by the state industrial commissions.

The actual requirements for a first aid set-up are governed by such factors as the number of people to be served by the department, the frequency of injuries, the extent of services contemplated and the availability of supplemental medical aid. It is wholly possible for a small plant to possess a good first aid service without high cost, but there are very practical considerations which show the wisdom of limiting activities of a small plant's first aid department to the elementary first aid functions.

#### Room and Materials Needed

It has been found by the Metropolitan Life Insurance Co., after a survey of industrial first aid systems, that the department should have rooms with an area of at least 100 sq. ft. and preferably 200 sq. ft. The room should be centrally located so that all departments are within the shortest possible distance from it and, if possible, it should have quiet and privacy.

The room should have hot and cold running water, electrical outlets, and good illumination, both natural and artificial. The floor should be of some impervious material and the walls should be covered with material which will stand frequent cleaning. It is evident from this description that the cost

of the room is small and can be provided by any meat packing plant employing 100 or more people.

The actual equipment of the room should be as simple as possible and yet be adequate for any demand which might be made upon it. Such simplicity contributes greatly to maintaining order and cleanliness and holds the original cost down to a nominal figure.

Sample lists of minimum materials required for use in small first aid units, and supplemental material to be added by plants employing several hundred persons, are as follows:

An enameled or wooden dressing table.

Two metal or wooden chairs or stools.

A covered waste pail for discharged dressings.

Two enameled metal surgical basins. A firm couch covered with washable material.

Two blankets, preferably dark.

A pillow with rubber cover.

Towels, soap.

A deep sink; preferably of vitreous porcelain with chromium fittings.

A first aid cabinet containing: tincture of iodine, metaphine, or methilate; bandages and sterile dressings; finger dressings, ½-in. compresses; 3-in. compresses, a few 4-by-6-in. compresses, assorted bandages of various widths; tourniquets; aromatic spirits of ammonia, and adhesive and safety pins.

The additional equipment needed for a larger plant's first aid unit is as follows:

A small sterilizer, gas or electric.

Various sterilizing solutions and drugs to be selected by a competent physician.

A few surgical instruments, also to be selected by the physician.

White cabinet for dressings and instruments.

One or more portable screens. This item is required when both sexes are

		PLANT	
Name			No
Address			
Date *Initials of a	Injury	Treatment	By*

#### SAMPLE FIRST AID RECORD FORM

Shown here is a suggested first aid record form planned by the Metropolitan Life Insurance Co. This form assures adequate information for compensation case records and furnishes enough information for future treatment.

# A FIRST AID PACKINGHOUSE

likely to be treated in the same room.

Soaking tanks and basins.

Chairs for waiting room.

Desks and file.

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ns. l for In a small plant it is hardly practicable to employ a registered nurse full time, or even a full time, trained first aid assistant. In such a case it is advisable to select a member of the plant personnel for training which may be offered by the local Red Cross chapter. In communities where this training is not given by the local Red Cross, a physician can furnish the education required. The American College of Surgeons, through its Chicago office, from time to time publishes material on industrial medicine which may be of aid to the plant first aid department.

The states impose restrictions upon the practice of surgery and medicine. Though the medical practice acts vary in wording and intent, broadly speaking, they prohibit anyone other than a licensed physician from rendering medical or surgical service, except in an emergency.

#### **Complete Records Are Vital**

In packinghouse first aid it is well to remember that the definition of the word, first aid, should be literal. In routine cases, nurses should not attempt to do work which should be done by a physician. This includes setting fractures, cleaning serious wounds and the administration of drugs. For this reason, every meat packing company which has a first aid department should make an arrangement with a physician so that he is available at all times.

A complete record should be made of every call which comes into the packinghouse first aid department. The record should include the date, the name and number of the employe and a complete history of the accident. This record can be used by the plant safety body in analyzing the accident and planning the proper preventive measures. Since the adoption of state compensation laws this record system is doubly important to the plant management. It assures the availability of complete, unbiased records in a disputed case.

An auxiliary service which is often delegated to the packinghouse first aid department, when it has a full time staff, is the checking of all laborers reported as sick. These plants require that every laborer contact the plant on the morning of any day on which he is unable to work. His reason is listed and the case is given to the first aid department. At some time during the day, the nurse or doctor calls at the employe's home and checks his case. In this way the worker is given competent medical advice which he otherwise

might not receive. Any tendency toward hypochondria is also checked. At a midwestern plant it has been estimated that absence from work has been cut at least 30 per cent by this procedure.

One of the big problems after the establishment of a regular first aid department is to get all employes to report with any injury, immediately, no matter how trivial it may be. In some cases the foremen are loath to excuse men because of time lost; in other cases the employe tries to avoid the trip to the first aid room.

It is simple enough to create a cooperative attitude among the foremen by establishing a first aid department capable of handling cases in a rapid, efficient manner and by showing the foremen that it is better to lose a few hours during the shift, than to lose whole days in the future due to infection or other complications.

Getting the men to report is a different problem and the burden usually falls upon the personnel of the first aid room. If the men are treated with respect by cheerful nurses and doctors, and are furnished with comfortable waiting facilities, this problem can usually be eliminated. In some instances, contests have been started among the departments with prizes for the one having the smallest number of work days lost through injuries. This has a double action; not only will there be self-policing among the men to see that all injuries are reported and treated, but there will also be a surprising response to safety suggestions.

It has also been found desirable to remove all first aid materials, such as bandages, iodine and tape, from the plant proper. This prevents handling wounds with dirty, greasy hands.

#### EXPORT PACKING HANDBOOK

A new handbook entitled "Modern Export Packing" has been prepared by the Bureau of Foreign and Domestic Commerce, U. S. Department of Commerce. It presents the results of a nation-wide survey and provides a comprehensive description of current export packing methods. Subjects covered:

Containers and their construction and suitability for different products; latest methods developed for safe packing of foods and other commodities; packing to obtain lowest possible customs duties; marks of origin; methods of protection against pilferage, mildew, corrosion, etc.

The commodity packing sections have been prepared with the cooperation of the country's most experienced shippers, exporters, and packing engineers.

#### **NEW PUNCH IN LINDNER ADS**

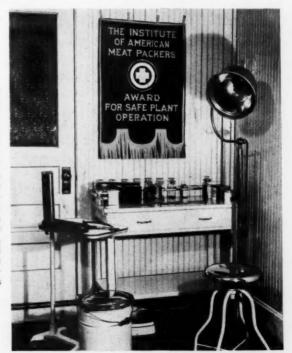
The distinctive comic-silhouette advertisements successfully used by Lindner Packing & Provision Co., Denver, in recent months to influence both the consumer and retailer in favor of the company's sausage items, now carry an added punch contributed by photos showing the product in use in the home.

In a current ad for Lindner's braunschweiger, an illustration of a woman's hands, slicing the braunschweiger, is shown, with attention directed to the photograph by a pointing comic silhouette. Taking its cue from present interest in political events, the headline reads: "We point with pride to Lindner's braunschweiger!"

The ad reminds readers that "some like it hot," and gives instructions for pan-frying the product.

### ONE PACKER'S EQUIPMENT

This first aid room at the Kingan & Co. plant, Indianapolis, has all necessary material to treat the average injury. As can be seen, it has helped to establish an enviable plant safety record. Even though a meat plant may have few or no major accidents, the first aid room can control and lessen the possible seriousness of the many cuts, scratches, bruises and other minor injuries which are almost inseparable from work of a manual nature.



### **ADELMANN HAM BOILERS**

The favorite of ham makers everywhere.

It's the ADELMANN results-in-operation that keep ham makers from coast to coast "sold" on Adelmann Ham Boilers. They're simple to operate, easy to handle, of rugged construction, designed for long service. Elliptical springs close aitch-bone cavity firmly, the non-tilting, self-sealing cover retains ham juices, shrinkage and operating time are greatly reduced. Made of Cast Aluminum, Tinned Steel,

Monel Metal, and Nirosta (Stainless) Steel, the most complete line available. It will pay you to investigate the Adelmann ham boiler— "The Kind Your Ham Makers Prefer!" Writel



#### HAM BOILER CORPORATION

Office and Factory-Port Chester, N. Y. . Chicago Office-332 S. Michigan Ave.

European Representatives R. W. Ballans & Co. 6 Stanley St., Livergool & 12 Box. Lane, Landon—Australian and New Zeoland Representatives: Gallin & Co., Ptv., Ltd., Offices in Principal Cities—Canadian Representatives C. A. Pemberton & Co., Ltd., 189 Church St., Toronto.

## SLICES, SHINGLES, STACKS

Bacon, Dried Beef, Boneless Meats, Ham, Chip Steaks, Cheese

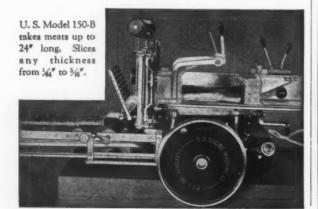
Here's a sure way for medium size establishments to increase yield and profits. The U. S. Model 150-B with its Continuous Feed operates efficiently, economically, automatically—pays for itself in a short time.

You can slice and shingle right onto the conveyor or stack slices on trays, without re-setting machine or handling food or slices from start to finish. Plugs in any electric socket. Equipped with ¼ H. P. motor.

Literature with complete details on request

#### U. S. SLICING MACHINE CO.

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La Porte, Ind.









#### for REDUCING PACKING HOUSE BY-PRODUCTS

Cut Grinding Costs—insure more uniform grinding—reduce power consumption and maintenance expense—provide instant accessibility. Stedman's extreme sectional construction saves cleaning time. Nine sizes—5 to 100 H.P.—capacities 500 to 20,000 lbs. per hr. Write for catalog No. 302.

Builders of Dependable Machinery Since 1834

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To Pay More Is Extravagant . . .
To Pay Less Is False Economy!

Get the Genuine



THE CLEVELAND COTTON PRODUCTS CO.

# PLANT OPERATIONS

# Ideas for Operating Men

#### PAINTING COLD WATER PIPE

Meat plant engineers and master mechanics frequently seek information on the best method of painting pipe, particularly cold water pipe. One difficulty lies in the fact that it is almost impossible to take the pipe out of service long enough to dry the condensed moisture on it. Wiping the metal with rags is seldom satisfactory.

The following method of painting cold water pipe, as employed in the plant of the New Jersey Zinc Co., is described in a recent issue of *Paint Progress*, published by the firm. Meat plant maintenance men might experiment with the method.

The surface is prepared for painting by removing the loose paint and scale by wire brushing and scraping. The dirt and excess moisture are then wiped off the surface and a liberal coating of turpentine is applied.

The turpentine has a two-fold effect: first, to replace the water remaining on the surface, by virtue of its preferential wetting property, and second, to "lift" any loose rust scale remaining on the surface after the mechanical cleaning. A primer coat of standard zinc dust-zinc oxide paint is then applied directly on the turpentine wet surface, thus providing the necessary rust inhibitive coating. In actual practice, a considerable interval may be allowed between the application of the turpentine and the primer, since the turpentine prevents further condensation of water on the steel.

Brush application of the primer is preferred to spray application, since it insures the intimate contact of the zinc dust with the surface. An 80:20 zinc dust-zinc oxide formula, with a linseed oil vehicle has been used, but a synthetic vehicle, such as a phenolic, may be preferable, first, because of the more rapid drying of the synthetic resin formulation, and second, because of the improved water resistance of the film.

The usual drying interval is allowed after which the finish coat paint is applied. Just before application of the second coat, the moist surface is again wiped with turpentine, but care must be taken to avoid an excess of the turpentine, since it might soften the surface of the primer.

Either an 80:20 zinc dust-zinc oxide paint or other suitable metal paint may be used as the finish coat. Colored zinc dust paints are available for finishing coats where a distinctive color scheme is desired.

It has been found that kerosene may be substituted for turpentine to replace moisture on the pipes, but its action is much slower and its assimilation into the paint less positive.

#### HAM WRAPPING TABLE

A table for simplifying ham testing and wrapping, suggested by an eastern meat packer, is shown in the accompanying sketch. It is designed to reduce the handling of hams after testing and before wrapping, and locate the wrapping materials where they are most convenient for the wrappers.

It is intended that the table shall be placed adjacent to the overhead rail on which the cages of smoked hams are brought into the wrapping room. The tester stands on a platform and may test the hams while they are hanging on the cage. After a ham is tested, it is removed from the cage and placed on table within easy reach of wrappers.

A supply of wrapping material is stacked on shelves directly in front of the wrappers. If two wraps are used—parchment and transparent cellulose, for example—the material forming the outer wrap should be placed on the lower shelf and the other on the shelf above. The sheets are then in position to be pulled onto the table in order and with the least loss of time.

The sketch is not drawn to scale. Packers who see merit in this piece of equipment, and who might desire to construct such a table, should determine carefully just what the various dimensions should be. The paper compartment, in particular, should be no higher than necessary, and the wrapping table should be no wider than needed to hold the largest size wrapper used.

#### PUMP SUCTION GAUGE

A pressure gauge is usually installed in the discharge line of a centrifugal pump. This gauge indicates the ability of the pump to perform up to its head or, when throttled, to raise a liquid to a predetermined height.

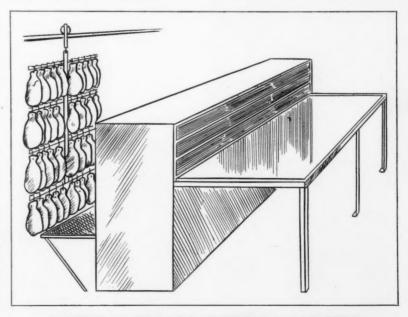
Equally valuable information may be obtained when a gauge is installed in the suction line. Such a gauge shows whether or not the liquid flows to the pump as fast as it is discharged, indicates the possibility of air binding and gives a definite idea as to the possibility of eliminating fittings or enlarging the suction line. All of this information is necessary to operate the pump with the lowest power cost. The suction gauge can be placed in the cylinder casing where facilities for this purpose are provided by the pump manufacturer.

If more than one pump is used for a particular pumping job it is advisable to have a separate suction line for each pump. In this case gauges are required to determine whether each pump is doing its share of the work. A pressure gauge is used in the discharge line. A compound gauge—one which measures both pressure and vacuum—is installed on the suction side.

#### **NEW RAT CONTROL METHOD**

Packinghouses experiencing trouble with rat control will be interested in learning the method used by one middle western packer to cut off the rodents from their breeding grounds.

A small (1/6 in.) pipe is installed above every opening that the rodents might use for nesting or moving from one room to the other and connected with the steam mains. This method has been found highly efficient in bringing about a decrease in the number of rats.



DESIGNED TO SPEED UP HAM TESTING AND WRAPPING

# Up and down the MEAT TRAIL

#### Wm. J. Wilson to Retire After 38 Years Service

William J. Wilson, supervisor of the lamb division at the United Dressed Beef Co., New York City, subsidiary of Swift & Company, will retire November 2 after having been associated with the



WILLIAM J. WILSON

meat packing industry for 38 years. He will be tendered a testimonial dinner by his friends and associates at the Commodore hotel on October 29.

In 1902, his meat packing career started when he went to work for the G. H. Hammond Co. on the sheep and lamb killing floor. When G. H. Hammond Co. moved to Chicago in 1903, Mr. Wilson was placed in charge of the sheep and lamb coolers.

The small stock business claimed his services shortly after, and he was transferred to the general office. In 1913 he made another move, this time to the Swift & Company general office. From 1913 to 1925 he traveled extensively, visiting most of Swift & Company's branch houses. In recognition of his fine

work in the field, he was rewarded with the managership of Sturtevant and Haley Co., at Somerville, Mass. In 1932 he was transferred to the United Dressed Beef Co., to supervise the lamb business of the United and its associated plants.

Following his retirement, he plans to drive to Florida, where he will spend the winter. After that he is considering managership of a 160-acre farm in Wisconsin.

#### British Refugee Children Guests at Swift Exhibit

Fifty-four British refugee children followed the example of their King and Queen when they took part in an American "red hot" roast and pienic held in their honor recently at the Swift exhibit at the New York World's Fair. It was the first time any of the children had ever eaten grilled frankfurts.

Accompanied by their nurses, teachers and a group of British and American notables, who are sponsoring their stay in this country, the English youngsters were served "red hots," sandwiches and hot chocolate on the lawn of the exhibit. Three outdoor grills were used to prepare more than 450 frankfurts.

All the youngsters, ranging in age from six to sixteen years were dressed in uniforms of navy blue overcoats, dresses and berets for the girls and blue overcoats, grey suits and school caps for the boys. They are from the British Actors Orphanage, established in Surrey, England, nearly 40 years ago for orphan children whose parents were formerly on the stage. The orphanage was completely evacuated when the bombardment of England began.

With the children at the picnic were: Constance Collier, Paulette Goddard, Mrs. Vincent Sheean and Mrs. Douglas Fairbanks, Jr. At present all the children are quartered in the Edwin Gould Foundation in New York City.

#### Morrell Gives Paintings to Iowa State College

A group of 12 original oil paintings which portray scenes from American history were recently presented to Iowa State college, Ames, Ia., by John Morrell & Co., Ottumwa, Ia. Painted by N. C. Wyeth, outstanding American painter, illustrator and muralist, they were created expressly to illustrate a calendar distributed by the company this year.

Events depicted in this group of paintings, known as "America in the Making," are dramatic episodes in American history. The events, settings and customs are considered authentic. After a preliminary showing in the Memorial Union, the paintings will hang in Beardshear Hall, it was announced by Dr. Charles E. Friley, college president.

#### Monroe Washer, Prominent Provision Merchant, Dies

Monroe Washer, president of John Thallon & Co., New York provision firm, and a member of the New York Produce Exchange, died recently at his home. He was 61 years old and had been connected with the provision trade for over 40 years.

Mr. Washer began his career with the Co-operative Wholesale Society, but later joined the firm of John Thallon, one of the oldest provision companies in New York. He specialized in the butter market at first, but later became interested in lard and meats. He was made president of the firm in 1913 and served

#### **ENJOY AMERICAN HOT DOGS**

LEFT.—Paulette Goddard, movie actress, shows four English children how "red hots" are broiled over a charcoal grill. CENTER.—Jason Halliwell, nine years

old, preparing to take a big bite. RIGHT.—English children eating frankfurts and Prem sandwiches after inspecting the Swift exhibit at the New York fair.







in that capacity until his recent death.

During the last World War, he sold large quantities of provisions to the Allies and was a buying agent for the British government here. He was the first to introduce canned Danish hams in the United States and later imported large quantities of Polish canned meat products.

He is survived by his son, Sidney M. Washer, who assumes the presidency of the firm. He has been associated with his father for the past 10 years.

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# Personalities and Events Of the Week

President John W. Rath, and Ray Paul, livestock department, Rath Packing Co., Waterloo, Ia., were visitors in New York recently.

A. G. Versen, smoked meats department, and J. J. Madigan, provision department, Armour and Company, Chicago, visited in New York last week.

William Hassel, president of Chicago Butchers Calfskin Association since its organization in June, 1920, died suddenly on October 20. Funeral services were held on October 23, with interment in Mount Olive cemetery. He is survived by his widow and three daughters. Mr. Hassel was born in Batavia, Ill., but lived the greater part of his life in Chicago, where he had a very wide acquaintance among the industry.

Frank A. Robbins, who recently resigned as manager of the glue department of Cudahy Packing Co., Chicago, after 20 years in the by-products department, has been elected to the board of directors and made vice president of Theonett & Co., Inc., 2113-2121 Elstom ave., Chicago, a long-established firm in the flavor and extract business.

E. H. Berky, formerly with the Albany Packing Co., Albany, N. Y., and also former assistant marketing specialist of the U. S. Department of Agricultural Economics, has been appointed Pittsburgh sales manager of the Dunlevy division of Hygrade Food Products Corp. He will share responsibilities with R. F. Sullivan.

Charles C. Eikel, Donald W. King, F. A. Lindberg and E. E. Evans of Armour and Company, Chicago, visited W. M. Carter of the Pittsburgh Provision & Packing Co. last week.

A new dry rendering plant costing approximately \$11,000 has been constructed by the Cornelius Bros. Packing Co., Los Angeles, Calif. All equipment was installed under the direction of C. L. Eshleman, chief engineer. The unit will adjoin the company's main packing plant.

Petitions asking a meat inspection ordinance and appointment of a meat inspector are being circulated by members of the Albuquerque, N. M., Junior Chamber of Commerce.

Louis Unzelman was recently elected president of the newly formed Wash-

ington State Retail Grocers and Meat Dealers Association. The new organization resulted from consolidation of the Seattle Retail Meat Dealers Association, the Seattle Retail Grocers Association and the Washington Merchants Association.

Oscar E. Meyer, partner in Henry Meyer's Sons, packers of Covington, Ky., died recently after an illness of several months. Mr. Meyer operated the business, which was established by his father more than a half a century ago, with his brother, Robert N. Meyer. He was 55 years old.

His many friends in the trade will be interested to know that John Stout, manager, beef department, New York branch, Rath Packing Co., has left the hospital where he recently underwent an operation, and is now recuperating at his home. He is expected to return to his duties very shortly.



NEWLY
APPOINTED
SUPERINTENDENT

Albert F. Schultz was recently appointed general superintendent of Fried & Reineman Packing Co., Pittsburgh, Pa.

Herman A. Schmidt, manager beef department, New York Butchers Dressed Meat Co., is spending his vacation visiting the cattle sections of Maryland.

William G. Meilinger, owner of a chain of retail markets in Chicago, died suddenly this week. He was the son of the late Joseph T. Meilinger, founder of the markets. A wife and two children survive.

F. W. Gage, provision manager at the Plankinton Packing Co., Milwaukee, Wis., for the past ten years, has been appointed to a similar position with the St. Louis-Independent Packing Co., St. Louis, Mo. R. L. Ward, Baltimore, Md., will replace Mr. Gage, according to E. G. Six, president and general manager of the Milwaukee firm.

E. W. Phelps, general manager of the Swift & Company plant, Kansas City, Kans., has been elected a director of the Chamber of Commerce of that city.

R. G. Howard has been appointed sales manager of the Swift & Company branch house at Hazelton, Pa. Mr. Howard has been with the company since 1933 and came to Hazelton from Wilkes-Barre, Pa., in 1935. He succeeds H. Case.

Christian Heller, formerly connected with the Jacob Dold Packing Co., Buffalo, N. Y., and operator of a meat market in Buffalo, died recently. He was 53 years old.

Robert M. Owthwaite, general man-

ager of John Morrell & Co., has been appointed Kansas chairman of National Art Fair week, which will he held throughout the nation from November 25 to December 1.

A new all-pork luncheon meat has been placed on the market by Oswald & Hess Co., Inc., Pittsburgh, Pa. The new product is being sold under the trade name of "Zest."

Luigi D'Angelo, veteran Utica, N. Y., meat dealer, died recently after a brief illness. Mr. D'Angelo had been in the wholesale meat business for a period of 40 years.

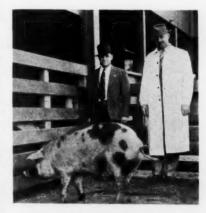
Ben H. Garton and Rollie R. Graham have purchased the interest of Mrs. Kate Kaufman in the Graham Sausage Co., Decatur, Ill.

George Hagerty, veteran employe at the Swift & Company plant, St. Paul, Minn., retired recently after 37 years in the meat industry. Mr. Hagerty joined the firm as a steam fitter in 1903. Fifteen years ago he was appointed to the general office engineering staff, a position he held until his retirement.

Campbell Wallace Mickelberry, son of the late founder of the Mickelberry Sausage Co., Chicago, died recently in St. Francis hospital, Blue Island, Ill. He was 58 years old.

Citizens of Joliet, Ill., recently attended an open house celebration at the Cudahy Packing Co. branch house to commemorate the fiftieth anniversary of the company. E. C. Burkhardt is manager of the branch, which has been in operation since 1898.

A new sliced bacon department was recently completed and put into use at the Sioux Falls plant of John Morrell & Co. The new department is equipped with three of the latest-model slicing machines, each capable of slicing 1,500 lbs. of bacon per hour.



MORRELL HOG NO. 1,000,000

With six weeks remaining before the end of its 1939-1940 fiscal year, the Sioux Falls plant of John Morrell & Co. recently slaughtered its millionth hog of the period. M. L. Green (left), hog buyer for the company, and C. I. Sall, plant superintendent, are shown as they viewed the animal. This is the first time since 1931 that the million mark has been attained at the plant.

## **READY NOW IN PERMANENT FORM!**

# The First Thirty-Seven Lessons in THE NATIONAL PROVISIONER'S

# **School of Refrigeration**

Almost simultaneously with the appearance of the first article under the general head of "The National Provisioner's School of Refrigeration" in July, 1938, letters of commendation were received from packers, superintendents, master mechanics and engineers in all sections of the country. The course had hardly gotten under way before requests for reprints began to come in. These have continued in increasing numbers.

"Volume 1, Meat Plant Refrigeration and Air Conditioning" is THE NATIONAL PROVISIONER'S answer to this demand. The author of the articles and the man who revised the first thirty-seven lessons in the course is a meat plant engineer—an expert in packinghouse refrigerating problems.

The articles in this new volume appear in lesson form and are designed to enable those interested in meat plant operation, as well as refrigeration, to acquire a practical working knowledge of this basic subject as well as fundamental information essential to the worker who has ambitions beyond his present job.

This first edition is limited. Fill out the coupon and mail in your order today. Price postpaid, \$1.50.

# MEAT PLANT REFRIGERATION AND AIR CONDITIONING

Volume 1

Gives you the first thirty-seven lessons in "The National Provisioner's School of Refrigeration," revised to date by the author, in permanent book form.

The volume is indexed in such a manner as to permit ready reference to the many ramifications of any subject covered in the articles. As an example, this is the way the index treats the subject of "Heat."

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The contents of "Meat Plant Refrigeration and Air Conditioning" are the first ever prepared on refrigeration from the packinghouse angle

THE NATIONAL PROVISIONER, 4	07 SO. DEARBORN ST., CHICAGO, ILL. • •	••••••
Please mail as soon as off the press	copies of "Meat Plant Refrigeration a	and Air Conditioning" at \$1.50 per copy to
Name	Firm—	
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# REFRIGERATION and Air Conditioning

#### MEAT PLANT REFRIGERATION.

A Complete Course for Executives and Workers Prepared by—

The National Provisioner

#### Questions and Answers

THIS group of questions and answers is designed to aid the student of THE NATIONAL PROVISIONER course in meat plant refrigeration and air conditioning in his review of important points in recent lessons. His ability to answer and understand the questions and answers should indicate to him whether he has successfully assimilated the lesson material.

1.—Where is an oil separator installed?

A .- In the hot gas discharge line.

2.—Where is the best place to drain oil from the system?

A .- The ammonia condensers.

3.—Name two systems of compression. What is the objection to the wet system?

A.—Wet and dry. The wet system is not considered economical.

4.—Where are purge valves installed?

A.—On the highest point on the ammonia condenser, except in the case of a shell and tube condenser, on which they are located one-third of the distance up from the bottom tube sheet.

5.—How is damage to the compressor prevented in case of zero clearance between piston and end of cylinder?

A .- A false head.

6.—At what speed should suction gas travel through the accumulator to insure that all liquid will be thrown out of the gas stream?

A .- Three hundred feet per minute.

7.—What causes bubbles to rise in an ammonia receiver gauge glass? Do these bubbles have any effect on the level of the ammonia in the glass?

A.—Bubbles form in the gauge glass when the temperature of the engine room is higher than the liquid ammonia in the receiver. The ammonia boils under such conditions. When the ammonia boils, the level in the gauge glass will be above the level of the ammonia in the receiver.

8.—What causes a sudden pound in an ammonia compressor operating at normal speed?

A.—Undigested liquid returning in the suction line, a piece of metal in the cylinder or a broken wedgebolt.

9.—Is the brine likely to find its way into the compressor when there is an ammonia leak in a brine tank?

A.—The brine might get into the direct expansion coil and be drawn into the compressor; however, the possibility is slight.

10.—If the gauge on an ammonia compressor, working on a common suction with other machines at 25 lbs. back pressure, suddenly indicated 5 lbs. suction pressure, what would be the reason?

A.—The trouble would probably be found at the suction stop valve. This valve may be closed by jarring.

11.—Why might an ammonia compressor run hot?

A .- Lack of sufficient lubricating oil,



LOADING DRY-ICE BUNKER

One of a large new reefer fleet in packinghouse service between midwestern points and the eastern seaboard taking on the single charge of Dry-Ice which refrigerates its load throughout the entire run. Trailer is a 3-in. insulated Fruehauf, 24 ft. long. (Photo by Pure Carbonic, Inc.) hot suction gas or too high a compression ratio.

12.—When shutting down an ice machine to pack the rod, both suction and discharge valves are closed. If only one turn of the discharge valve handle can be made, what should be done?

A.—The next valve from the discharge valve should be closed and the compressor and the line from the compressor to the closed valve should be pumped out.

13.—How does air get into an ammonia compressor?

A.—During pump-out periods. It may also be drawn into the compressor through the rod packing or through minute openings between packing and rod. The catalytic action of oil and ammonia gas in the presence of iron generates a non-condensible gas.

14.—Why does the oil come out first when oil and water are drawn from an ammonia still?

A.—The oil floats on the water. A mixture of oil and water has lower specific gravity than a mixture of water and ammonia,

15.—What is the first step in putting an ammonia compressor back into service after it has been overhauled?

A .- Pump out the air.

16.—Why is it important to maintain an unvarying and uniform temperature in the curing cellar?

A.—Temperature influences the speed of cure; the higher the temperature, the faster meats cure. Temperature fluctuations result in product with varying degrees of cure.

17.—Are pipe coils or brine sprays more suitable for refrigerating carcass chill rooms? Why?

A.—Brine sprays are more suitable because they produce more uniform temperatures, speed up chilling and hold rooms in better condition.

18.—What is the advantage of a brine spray system for cutting floors?

A.—Higher relative humidity can be maintained and shrink reduced. Brine sprays also provide more comfortable working conditions. Employes should not work close to direct expansion coils.

19.—Why is sodium chloride used for open sprays in fresh meat coolers rather than calcium chloride?

A.—Calcium chloride leaves a white spot and a bitter taste if it comes in contact with fresh meat. Sodium chloride is also cheaper than calcium chloride.

20.—Why is rapid air circulation in coolers detrimental to carcasses?

A.—It causes high shrink and discoloration of the meat.

21.—What is the proper temperature

for a sharp freezer? A storage freezer?

A.—A sharp freezer should be held at minus 15 degs. F. and a storage freezer at 10 to 15 degs. F.

22.—Why are meats not stored at sharp freezer temperature?

A.—It is expensive to maintain sharp freezer temperature and freezer burn (dehydration) is greater at minus 15 degs. F.

23.—What are the advantages of quick freezing?

A.—Meats frozen quickly at low temperatures shrink less and hold their color better.

24.—How does an increase in the specific gravity of the brine in an open spray system affect the meats?

A.—The higher the specific gravity of the brine, the more moisture the meats will lose.

25.—What are the advantages of anhydrous ammonia over other refrigerants?

A.—High latent heat and relatively low first cost.

26.—What is the cycle of anhydrous ammonia gas in an absorption refrigerating machine?

A.—The answer to this question is too lengthy to be given here. The subject is discussed in Lesson 13 of THE NATIONAL PROVISIONER course.

27.—How is the pressure drop in ammonia lines calculated?

A.—See Lesson 18 of THE NATIONAL PROVISIONER course.

28.—What is the boiling point of anhydrous ammonia?

anhydrous ammonia?

A.—Boiling point varies with pres-

29.—What are the advantages of brine refrigeration?

A.—It is never necessary to pump out the lines and there is considerable heat transfer to the coils after the brine pumps cease operating. Brine is safer than direct expansion.

30.—What amount of water is used over atmospheric and in shell and tube type ammonia condensers for 125 lbs. pressure?

A.—Water consumption of ammonia condensers is discussed in Lessons 47, 48 and 49 of The NATIONAL PROVISIONER course

#### **BOOK REVIEWS**

PROXIMATE COMPOSITION OF AMERICAN FOOD MATERIALS.—Published by the U. S. Department of Agriculture as Circular No. 549, Washington, D. C., 1940. 92 pages; 5% by 9% in. Price 15 cents.

This pamphlet by Charlotte Chatfield and Georgian Adams of the Bureau of Home Economics is intended to fill the need for new tables giving the composition of many modern foods. It includes average figures for the composition of an extensive list of natural and processed foods of animal and plant origin, with much information on the sources, derivation, classification, and use of the data given. The meat packer will be interested in the figures for water, fat and ash contents and fuel values of the usual cuts of meat, and also in those for edible glands, various types of sausage, and other prepared meats.

THE CHEMICAL COMPOSITION OF FOODS.—Published by the Chemical Publishing Co., Inc., New York City, 1940. 150 pages; 5¼ by 8½ in. Price \$2.50.

Written by McCance and Widdowson of the University of Cambridge, England, this new book gives the chemical composition of 541 different foods used in that country. Raw and cooked and prepared foods are listed and recipes are given for many of the latter. Data are included on water, sugar, starch and dextrins, total nitrogen, protein, available carbohydrate, calories, sodium, potassium, calcium, magnesium, iron, copper, phosphorus, sulphur, chlorine and acid-base balance. In addition, two short sections supply figures on available phosphorus and iron. The groups of foods included are cereals and cereal foods, dairy products, meat, poultry and game, fish, fruit, nuts, vegetables, sugar, preserves, sweetmeats, beverages, beers, condiments, vegetable fats, cakes and pastries, puddings, meat and fish dishes. egg and cheese dishes, sauces and soups.

This book and the one reviewed above, should be of great interest to home economists, food chemists, and progressive meat packers.

#### PACKER AND FOOD STOCKS

Price ranges and total sales of listed stocks during the week ended October 23:

	w	eek end	ed Oct.	23	Oct. 16
	Sales	High	Low	Close	Close
Amal, Leather Do. Pfd	500	134	114	11/2	136
Do. Pfd	500	17%	17%	17%	131/4
				414	4
Do. Pfd	900	31%	31%	31%	311/2
Do. Pfd Amer. Stores	900	11%	117%	31% 11%	13
Armour Ill Do. Pr. Pfd	16,200	51/8	51/8	51%	13 4% 45%
Do. Pr. Pfd	3,500	49%	481/2	49%	4514
Do. Pfd Do. Del. Pfd. Beechnut Pack.	*****	109		109	64%
Do. Del. Pfd.	400	109	109	109	107
Beechnut Pack.			*****		116%
Bohack, H. C	*****	*****	*****		2
Do. Pfd	10	211/4	211/2	211/2	18%
Chick. Co. Oil	900	11	11	21/2	11
Childs Co	900	21/4	21/4	21/2	21/4 111/4
Childs Co Cudahy Pack Do. Pfd	300	11 1/8		11/8	111/4
First Nat. Strs.	1 200	4.4	68	08	65
Gen. Foods		44	971/	44	431/4
Do. Pfd	200		0 6 7/8	371/8	39 %
Clidden Co	100	15	11074	115¾ 15	114%
Glidden Co Do. Pfd	100	19	15		151/8 38
Gobel Co	600	914	21/8	21/4	21/4
Gr. A & P	175	1001/4			00
Do. Pfd		10078	10078	10078	128
Hormel, G. A					31
Hygrade Food					154
Hygrade Food Kroger G. & B.	5,400	31%	311%	31 1/2	3214
Libby McNeill Mickelberry Co. M. & H. Pfd Morrell & Co	1.000	7	7	7	65%
Mickelberry Co.	300	47/4	47%	4 7/8	474
M. & H. Pfd	180	71/2	71/2		71%
Morrell & Co	100	34	34	34	35
Nat. Tea	400	4¾ 60⅓ 116⅓	34 4% 60 116	434	5
Proc. & Gamb		601/8	60	601/8	61%
Do. Pfd	20		116	116	117
Rath Pack	50			44	391/8
Safeway Strs		43%	431/4	431/4	43
Do. 5% Pfd					1071/4
Stahl Meyer		*****	*****	*****	11/4
Swift & Co	9,500	211/4	21	211/4	201/8
Do. Intl	1,450	181/8	18	181/8	18
Trunz Pork		*****		*****	
U. S. Leather	1,700	51/8	5		41/4
Do. A	2,000		8%	9	8
Do. Pr. Pfd. United Stk. Yds.	1 900	13/	15%	19/	8 60 1%
Do Ded	200	1% 6%	1% 6%	6%	1%
Wesson Oil	900	178	171/	173/	6 171/4
Wesson Oil Do. Pfd	200	6814	6814	6914	60
Wilson & Co	3.800	4 %	45%	484	43%
Do. Pfd		61%	6114	4 1/8 61 1/8	591/4
	300	18	-A /8	- A /B	20.74

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#### **CHAIN STORE SALES**

Chain grocery store sales showed less than the usual seasonal rise in September, following a contra-seasonal gain in August, according to a statement issued by the U. S. Department of Commerce. The seasonal corrected index receded from 115 to 112 for September, representing a decrease of 2 per cent in average daily sales from August to September.

Jewel Tea Co., Inc., reports sales of \$2,366,139 for the four weeks ended October 5, an increase of 21 per cent over the same period last year. Sales for the first 40 weeks of 1940 rose 15.7 per cent to \$21,517,677.



#### "BOSS" V-TYPE TRIPE SCALDERS

Here is a machine that is meeting with more than success. It revolutionizes the washing and scalding of tripe entirely, and produces a product that is cleaner and whiter than can be done by any other means.

Use this "BOSS" for Best Of Satisfactory Service

#### THE CINCINNATI BUTCHERS' SUPPLY CO

General Office: 2145 Central Parkway, Cincinnati, Ohio Factory: 1972-2008 Central Ave., Cincinnati, Ohio 824 Exchange Ave., U. S. Yards, Chicago, Ill.

# Volume of Processed Meat **Dutput High in September**

PRODUCTION of processed meats under federal inspection during September showed the usual seasonal declines, although production remained at a high level, compared with September in other years. Volume of sausage production during the month has been exceeded only once during the past twelve years-in September, 1936. Sliced bacon output, while declining seasonally from the previous month, was considerably above the level of September, 1939.

Quantity of meat food products canned during the month declined from the volume in August, and also fell below production in September, 1939. The decline was in canned soups and canned sausage. Total quantity of pork canned exceeded the amount for the same month last year.

Production of fresh sausage showed a seasonal increase, totaling 11,391,732 lbs. during September compared with 8,640,861 lbs. in August, 1940. This was almost 2 million lbs. over the quantity of fresh sausage produced in September, 1939. Smoked and cooked sausage output, while declining from the previous month, exceeded production during September, 1939.

Production of meat loaves in federally inspected plants during September was large, exceeding any other September of record, although it was just a little under August production. Sliced bacon output is also keeping to its high level; while showing some decline from August, it exceeded any September of record by several million lbs.

Sausage production under federal inspection during September:

	Sept., 1940 lbs.	Aug., 1940 lbs.	Sept., 1939 lbs.
Fresh (finished). Smoked and/or	.11,391,732	8,640,861	9,749,426
cooked	.51,811,707	59,089,172	50,967,277
semidried	. 9,335,363	11,582,352	9,373,905
Total	.72,538,802	79,312,385	70,090,608

Volume of canned meat food products, sliced bacon and meat loaves produced during September, 1940, with compari-Sept., 1940 Aug., 1940 Sept., 1939

	108.	IDB.	108.
Canned meat and food products:	meat		
Pork1 Sausage	2,691,970 1,450,390	6,239,384 17,747,789 2,554,292 3,427,206 9,294,965	6,942,357 12,872,688 3,312,623 4,111,487 9,366,425
Total8	34,179,700	39,263,636	36,605,580
	28,227,275	30,898,065	24,802,723

Meat loaves: Headcheese, con carne, jellied products, etc..10,303,783 10,343,854 9,869,473

Volume of sausage, canned meats, sliced bacon and meat loaves produced during the first three-fourths of 1940 and 1939 showed the cumulative figures reproduced at top of next column:

Sausage-	9 mos. 1940 lbs.	9 mos. 1939 lbs.
Fresh (finished) Smoked and/or	93,241,000	78,363,000
cooked	452,989,000	430,986,000
semidried	90,844,000	85,489,000
Total	637,074,000	594,838,000
Canned meat and meat food products—		
Beef	52,740,000	51,800,000
Pork		144,490,000 26,543,000
Soup	146,116,000	137,845,000
All other	86,732,000	60,890,000
Total	527,143,000	421,568,000
Bacon sliced	240,392,000	203,437,000
Meat loaves-		
Head cheese, chili con carne, jellied produc	ts,	
etc	86,964,000	77,462,000

Total production of sausage under federal inspection during eleven months of the 1940 packer fiscal year, compared with production in 1939 and 1938:

	1940 lbs.	1939 lbs.	1938 lbs.
November	67,155,268	66,612,075	61.140,435
December	59,581,307	59,452,050	54,946,367
January	66,216,941	61.138.875	57,433,989
February	59,722,810	53,478,836	52,112,898
March	61,015,994	61.163.870	58,535,167
April	70,775,267	57,674,333	57,578,590
May	75,628,700	71,676,040	63,918,896
June	71,926,580	73,268,181	68,164,386
July	79,935,413	71,359,293	66,665,384
August	79,312,385	74,988,389	72,782,808
September	72,538,802	70,090,608	69,268,094
Total	763,809,467	720,902,349	682,547,014

Volume of sliced bacon during September declined seasonably from the preceding month, but showed an increase over that of the corresponding month in both 1939 and 1940. The cumulative total continued well in advance of that recorded during the same period of the two preceding years:

	1940 lbs.	1939 lbs.	1938 lbs.
November	22,903,197	19,967,669	16,800,154
December	22,336,794	18,607,520	17.381.833
January	24,778,179	19,860,787	17,271,741
February	21,755,898	18,169,033	16,390,822
March	23,306,006	20,793,982	18,604,313
April	26,593,341	19,982,489	19,028,679
May	26,857,536	23,214,142	20,632,082
June	27,450,204	24,547,610	21,344,488
July	30,525,151	24,651,037	21,601,392
August	30,898,065	27,289,035	23,058,673
September	28,227,275	24,928,665	22,951,296
Total	285.631.646	242,011,969	215,065,473

#### CANADIAN EXPORTS TO U. K.

Movement of Canadian bacon and hams to the United Kingdom has kept up at the rapid pace set at the outbreak of the war, under the special agreement with the British Ministry of Food. During September over 35 million lbs. of bacon and hams moved across the Atlantic, compared with 11 million lbs. in September a year ago. Total exports of bacon and ham this year to date are 249 million lbs., compared with about 120 million lbs. during the same period last year.

Exports of Canadian meats to the United Kingdom during the first nine months of 1940, compared with 1939:

	9 mos. 1940	9 mos. 1939
Beef		869,000
Bacon and hams2	49,094,000	120,469,400
Pork	124,900	377.800
Canned meats	6,070,015	1.363,353
Lard	1,708,100	6,654,600
Lard compound	359 300	479 500

#### WANT A GOOD MAN?

Watch the Classified Advertisements page for good men.

#### HEAVY HOGS CONTINUE TO SHOW SOME IMPROVEMENT

Heavy hogs made the only improvement shown in cut-out results this week. Large hog supplies, compared with the previous week, brought a drop in hog costs and a slow live market. Drop in product values was most noticeable on cuts from light and medium butchers.

Pct. live wt.	Price per lb.	value per cwt. alive	Pct. live wt.	Price per lb.	value per cwt. alive	Pct. live wt.	Price per lb.	Value per cwt. alive
18	0-220 lb	8.—	22	0-240 lb		24	0-270 11	)a.—
Regular hams	12.5 9.3 12.6 14.5 10.3  3.4 4.9 4.4 4.7 11.5 9.3	\$1.75 .52 .50 1.42 1.13  .04 .12 .09 .58 .18 .28 .04 .22	13.80 5.40 4.00 9.60 9.70 2.00 3.00 2.20 11.00 1.50 2.80 2.00	12.7 9.2 12.6 14.3 10.5 9.5 4.0 4.4 4.7 8.9 9.3	\$1.75 .50 .50 1.37 1.02 .19 .12 .15 .10 .52 .13 .26 .04	13.70 5.30 4.00 9.50 8.00 4.00 3.40 2.00 10.30 1.50 2.80 2.00	13.0 9.3 12.3 13.8 10.7 9.5 4.8 4.4 4.7 7.5 9.3	\$1.78 .49 .49 1.31 .86 .38 .19 .17 .09 .48 .11 .26 .04
TOTAL YIELD AND 69.00		\$6.87	70.00		\$6.87	70.50		\$6.87
Cost of hogs per cwt Condemnation loss Handling and overhead	\$6.32 .03 .58			\$6.42 .03 .50	. ,		\$6.44 .03 .45	
TOTAL COST PER CWT.	\$6.93			\$6.95			\$6.92	
TOTAL VALUE	6.87			6.87			6.87	
Loss per cwt	.06			.08			.05	

### CHICAGO PROVISION MARKETS

	CASH PRICES	
Based on	actual carlot trading T October 24, 1940	hursday,
	REGULAR HAMS	*S.P.
8-10	12%	191/
10-12		$\frac{13}{13}\frac{72}{12}$ $\frac{13}{12}$
14-16	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13%
10-16 range .	12%	****
	BOILING HAMS Green	*S.P.
16-18	101/	13% @14
19.90		13% @14 13% @14
16-20 range .		1374 0214
16-22 range .		****
	SKINNED HAMS	*S.P.
10-12	400/	141/4
12-14		14 1/3 14 1/2
16-18	1414	
18-20		141/2
99.94	1234	131/6
24-26 25-30	123% 113% s inc	13 121/4
25/up, No. 2'	s inc	
	PICNICS	40.73
4. 6	Green 91/4/@95	*S.P. 9%
.6- 8	93, 67 91	6 974
8-10	9%	934
12-14	s inc	934
Short shan	s mc v‰avy k ‰a¼c over.	4
	BELLIES	
	(Square cut seedless) Green	*D.C.
6-8	101/2	1136
		11%
12-14		12 12 12
14-10		12 12
*Quotations	represent No. 1 new cu	
	EEN AMERICAN BELLI	
18-20		$10\frac{1}{2}$
	D. S. BELLIES	
	Clear	Rib
16-18		****
18-20 20-25	$\begin{array}{c} 10\frac{73}{10} \\ 10\frac{1}{2} \\ 10\frac{1}{2} \\ 10\frac{1}{2} \end{array}$	101/2
303-35		10 1/4 10 3/4
35-40		101/
40-50		101/4
6-8	D. S. FAT BACKS	4%
8-10		434
12-14		3%
14-16		6
18-20		714
		7%
	OTHER D. S. MEATS	7n
Clear plates	es 6- 8 4- 6	51/ 11
D. S. jowl b	uttsjowlsjowls	5%
Green square	jowls	61/8
Green rough	Jow18	51/4

#### WEEK'S LARD PRICES

Prices of cash, loose and leaf lard on the Chicago Board of Trade:

	Casu	TWOSE	Action
Monday, Oct. 21 Tuesday, Oct. 22 Wednesday, Oct. 23 Thursday, Oct. 24 Friday, Oct. 25	4.67½n 4.67½n 4.77½b 4.67½ax 4.65n	4.67½n 4.72½n 4.82½n 4.75n 4.70n	4.75n 4.75n 4.87½n 4.75n 4.75n
Packers' V	Vholesale	Prices	
Refined lard, tierces, Kettle rend., tierces, Leaf, kettle rend., tie Neutral, tierces, f.o.b. Shortening, tierces, c.	rces, f.o.b Chicago	Chgo	7.871/ <sub>2</sub> 7.871/ <sub>2</sub> 7.621/ <sub>2</sub>
Havana (	Juha I ar	d Deice	

Wednesday, October 23, 1940

Pure lard ..... 9.95c

#### **FUTURE PRICES**

SATURDAY, OCTOBER 19, 1940

	Open.	High.	Low.	Close.
	4.80	4.821/4	4.80	4.65b 4.80
Jan.	4.95	****		4.95
May	6.15			5.97 1/2 ax 6.15b
	6.30	Inn 9.	Mar 5: In	6.30 ly, 1; total
11 sa	les.	Oet. 4; De	ee., 1.093;	Jan., 1,311;
CLEA	R BELLIE	S		
0et.	10.50	11.00	10.50	11.00
	MOND	AV. OCTOR	RER 21. 194	10

MONDAY, OCTOBER 21, 1940

Oct	$4.75$ $4.90$ $5.90$ $6.07\frac{1}{2}$	$4.72\frac{1}{2}$ $4.87\frac{1}{2}$ $5.87\frac{1}{2}$ $6.05$	4.62½ ax 4.75b 4.90ax 5.87½ ax 6.05b 6.22½ ax
Sales: Dec. 4; sales.	Jan. 14; Mar	r. 1; May	7; total 26
Open interest: Mar. 70; May 16	Oct. 1; Dec	e. 1,092;	Jan. 1,319

#### TUESDAY, OCTOBER 22, 1940

0et		****	4.621/2b
Dec4.77½ Jan4.90	$4.92\frac{1}{2}$	4.90	$\frac{4.77\frac{1}{2}}{4.92\frac{1}{2}}$
Mar5.90 May6.071/2	6.10	6.071/2	5.90 6.07½b
July	****	* * * *	6.25b
Sales: Oct. 2: total 30 sales.	Dec. 5; Jan.	10; Mar.	4; May 9

#### WEDNESDAY, OCTOBER 23, 1940

LARD-			
Oct4.70 Dec4.80	4.85	4.80	4.70b 4.85b
Jan4.95	5.00	4.95	5.00ax
Mar5.97½ May6.10	6.17%	6.10	5.97½b 6.17¼b
July6.371/2		****	6.371/2
Sales: Oct. 5; July 1; total 40		17; Mar.	1; May 5
Open interest: Mar. 67; May 16			

#### THURSDAY, OCTOBER 24, 1940

LARD-			
Oct4.70	4.70	4.65	4.65ax
Dec 4.8234	4.82%	4.72%	4.7216b
Jan4.971/2	4.971/2	4.8736	4.87%b
Mar 5.921/2	5.921/2	5.90	5.90ax
May6.15	6.15	6.071/2	6.10ax
July6.25			6.25ax
Sales: Oct., 1: 4; July, 1; total,	Dec., 12; 33 sales.	Jan., 14; Mar	., 1; May
Open interest: May, 172; July,	Dec., 1,08 3; total, 2	4; Jan., 1,331; ,656 lots.	Mar., 66

#### FRIDAY, OCTOBER 25, 1940

AJAK AU	A.			
Oet. Dec. Jan.	4.70	4.72½ 4.85	4.67½ 4.82½	4.60ax 4.70ax 4.821/4b
	5.871/2	5.90	5,871/4	5.87 %ax
May	6.05	6.071/2	6.05	6.05
July	6.25	****		6.25ax

#### CHICAGO PROV. SHIPMENTS

Provision shipments from Chicago for the week ended on October 19, 1940:

	Week Oct. 19	Previous week	Same week '39
	lbs. 20,792,000	17,335,000	18,582,000
	lbs.58,660,000 5,937,000	$\frac{46,270,000}{3,636,000}$	61,021,000 7,657,000

#### LARD AND GREASE EXPORTS

Exports of greases from New York City, week of October 19, totaled 115,-600 lbs.

#### Provisions and Lard

LARD.—The futures market was moderately active and displayed an easy tone most of the week as a result of comparatively heavy hog marketings, liquidation and hedging pressure. Strength in other commodities, the development of a steadier tone in hogs, and lighter hedging pressure led to some recovery. At mid-week prices were little changed from a week earlier.

Lard developed a weak tone on Thursday and closed easy at moderate declines. Rather light scattered offerings met with a slow demand. The continued liberal movement of hogs and some slowing up in the cash demand were the controlling factors.

Domestic demand was good in the East but export demand was quiet. At New York, prime western was quoted 5.20@5.30c; middle western, 5.10@5.20c; New York City in tierces, 4%@4½c, tubs, 5½@5%c; refined continent, 5%@6c; South America, 6@6½c; Brazil kegs, 6½@6½c; shortening in round lots, 7%c, smaller lots 8c.

#### **CANADIAN STORAGE STOCKS**

Stocks of meat in storage in Canada on October 1 showed little change from a month earlier. Storage holdings of beef totaled 12,256,000 lbs., veal 4,000,000 lbs., pork 37,509,000 lbs. With the exception of pork holdings which were 10 million lbs. above last year, all products showed declines from October 1, 1939. The 1940 holdings were also well below the five-year average for October 1 for beef, veal and lamb, but pork showed an increase of about 7 million lbs.

Stocks of meat in Canada on October 1, 1940:

	Oct. 1, 1940 lbs.	Sept. 1, 1940 lbs.	Oct. 1, 1939 lbs.	5-yr. avg. lbs.
Beef Veal Pork Lamb	12,256,180 4,019,110 37,509,328	3,548,138	4,238,607	4,233,91
	tton 1,198,548	900,062	1,853,742	1,897,15

#### AUGUST MEAT PRODUCTION

Tonnage of meat produced in packing plants under federal inspection (dressed weight of animals slaughtered) during August with comparisons (figures in millions of pounds):

			Lamb &	Pork &	
	Beef	Veal	Mutton		Lard*
1940		m	illion pou	nds	
August	421	49	57	541	91
July	421	51	55	596	106
June	305	45	52	694	124
May	418	49	57	676	127
April	409	45	57	623	117
March	377	42	55	690	129
February	377	38	56	742	142
January	431	44	67	939	182
August					
1939	421	48	57	511	92
1938	410	53	62	448	74
JanAug.					
1940	3.239	363	456	5.501	1.001
1939		363	452	4,529	813
1938		381	478	3,921	671
	.,			-,	

<sup>\*</sup>Unrendered. \*\*Rendered.

# MEAT AND SUPPLIES PRICES

Chicago

WHOLESALE FRESH ME	ATS	Fresh Pork and Pork Products
Carcass Beef		Pork loins, 8-10 lbs. av15
Week anded	Cor. week,	Pienies     11     11       Skinned shoulders     12     13       Tenderloins     34     28       Spareribs     11     12
October 24, 1940 per lb.	1939 per lb.	Tenderloins
Prime native steers		Spareribs
400- 600	16% @17%	Boston butts
800-1000	15 @16 15 @16	Spate   1
Good native steers-		Hocks 8 8
400- 600	16¼ @17¼ 14% @15% 14% @15%	Hocks 8 8 7 7 7 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9
600- 800	14% @15%	Slip bones 7 11
		Blade bones 8 11 Pigs' feet 2½ 4
Medium steers	15%@16% 14%@15% 14%@15% 15%@16%	Pigs' feet     2½     4       Kidneys, per lb     4     9       Livers     8     8       Brains     7     9
800-1000	14%@15%	Brains 7 9
Heifers, good, 400-60017% @18%	151/2 @ 161/2	Ears 4 4
Hind quarters, choice 24	11 @12 18 % @19 13 % @14 %	Heads 6 8
	13%@14%	Ears 4 4 Snouts 4 5 Heads 6 8 Chitterlings 5 6%
Beef Cuts   Steer loins, prime   unquoted		WHOLESALE SMOKED MEATS
Steer loins, primeunquoted	unquoted	Fancy regular hams, 14@16 lbs.,
Steer loins, No. 2	26 24	Fancy skinned hams, 14@16 lbs
Steer short loins, primeunquoted	unquoted	parchment paper
Steer short loins, No. 140	29 27	Picnics, 4@8 lbs., short shank, plain13\\\@14\\\
Steer loin ends (hips)30	24 22	Picnics, 4@8 lbs., long shank, plain111/2@121/2
Cow loins	17	Standard bacon, 6@8 lbs., plain15%@19
Cow short loins20	19	No. 1 beef sets, smoked
Steer ribs, primeunquoted	unquoted	Outsides, 5@9 lbs
Steer ribs, No. 128	20 16	Knuckles, 5@9 lbs
Cow ribs, No. 2	13	Cooked hams, choice, skinless, fatted
Cow ribs, No. 312%	12	Cooked picnics, skin on, fatted26
Steer rounds, No. 120	unquoted 161/4	Fancy regular hams, 14@16 lbs., parchment paper parchment paper parchment paper parchment paper standard reg. bams, 14@16 lbs., plain. 18½@19½ Standard reg. bams, 14@16 lbs., plain. 16½@17 Picnics, 4@8 lbs., bort shank, plain. 13½@13½ Picnics, 4@8 lbs., bort shank, plain. 11½@12½ Picnics, 4@8 lbs., bort shank, plain. 11½@12½ Picnics, 4@8 lbs., long shank, plain. 11½@12½ Picnics, 4@8 lbs., plain. 18½@19 Standard bacon, 6@8 lbs., plain. 15½@16 No. 1 beefs sets, smokles, plain. 15½@16 No. 1 beefs sets, smokles, plain. 15½@16 Cooked hams, choice, skin on, fatted. 30½ Cooked plams, choice, skin on, fatted. 31½ Cooked picnics, skin on, fatted. 26½ Cooked picnics, skin on, fatted. 26½ Cooked picnics, skin on, fatted. 26½
Steer rounds, No. 2	15%	
Steer chucks, primeunquoted Steer chucks, No. 118	unquoted 141/4	Pork feet, 200-lb. bbl         \$15.75           Lamb tongue, short cut, 200-lb. bbl         65.00           Regular tripe, 200-lb. bbl         17.28           Honeycomb tripe, 200-lb. bbl         22.28           Pocket honeycomb tripe, 200-lb. bbl         26.00
Steer chucks, No. 2	13%	Regular tripe, 200-lb. bbl
Cow chucks	101/2	Honeycomb tripe, 200-lb, bbl
Steer plates11	81/2	BARRELED PORK AND BEEF
Briskets No. 1	12	
Cow navel ends 81/2	7 8	Clear fat back pork:         *13.00           70 - 80 pieces         \$13.00           80-100 pieces         \$12.50@13.00           100-125 pieces         \$11.50           Clear plate pork, 25-85 pieces         \$12.00           Bean pork         \$13.00n           Brisket pork         \$18.50n           Plate beef         \$22.50           Extra plate beef         \$22.00
Fore shanks 9	9	80-100 pieces
Hind shanks 8	8 50	Clear plate pork, 25-35 pieces 12.00
Strip loins, No. 1 Dhis	40	Bean pork
Sirloin butts, No. 137	29 21	Plate beef
Fore shanks 99 Hind shanks 98 Strip loins, No. 1 bnis 72 Strip loins, No. 2 35 Sirloin butts, No. 2 24 Sirloin butts, No. 2 24 Beef tenderloins, No. 1 68 Beef tenderloins, No. 2 55 Flauk steaks 26 Shoulder clods 166 Shoulder clods 166	60	Extra plate beef
Beef tenderloins, No. 265	58 16	SAUSAGE MATERIALS
Flank steaks	22	(Packed basis.)
Shoulder clods16	15%	Special lean pork trimmings 85% 134@14
Insides, green, 6@8 lbs164	17 171/4	Extra lean pork trimmings 95%15 @151/2
Shoulder clods   16	151/2	Pork cheek meat (trimmed)         9 @ 9½           Pork hearts         8½           Pork livers         5 @ 5½
	17	Regular pork trimmings   8   9
Beef Products		Native boneless bull meat (heavy) 14 Boneless chucks
Brains 7	10	Shank meat
Hearts	18	Beef trimmings
Sweetbreads14	18 10	Beef cheeks (trimmed). 9 Dressed canners, 350 lbs. and up. 9 Dressed canner cows, 400-450-lb. 9% Dr. bologna bulls, 600 lbs. and up. 10%
Sweetcreaus   14   12   12   13   14   15   15   15   15   15   15   15	10	Dressed canner cows, 400-450-lb 9% Dr. bologna bulls, 600 lbs. and up 10%
Fresh tripe, H. C111/4	11½ 20	Pork tongues, canner trim, fresh 6
Kidneys 9	9	DOMESTIC SAUSAGE
Veal		(Oustabless sower fance sender)
Choice carcass	17	Pork sausage, in 1-lb. carton
Good carcass	15 20	Country style sausage, fresh in bulk
Veal   Choice carcass	14	Pork sausage, in 1-1b. carton. 24 Country style sausage, fresh in link. 194 Country style sausage, fresh in bulk. 174 Country style sausage, smoked. 2234 Frankfurters, in abeep casings. 244 Frankfurters, in abeep casings.
Medium racks 12	12	
Veal Products		Skinless frankfurters
Brains, each	9	Skinless frankfurters
Sweetbreads	30 35	Liver sausage in beef rounds
	00	Smoked liver sausage in hog bungs
Lamb		Head cheese
Medium lambs	16 15	Minced luncheon specialty, choice20
Choice saddles20	20	Tongue & blood
Choice fores	19 13	Souse
Choice lambs         16           Medium lambs         15           Choice saddles         20           Medium saddles         19           Choice fores         12           Medium fores         11           Lamb fries         28	12	Bologna in beef middles, choice   181/2     Liver sausage in beef rounds   15     Liver sausage in hog bungs   17     Smoked liver sausage in hog bungs   21 /   Head cheese   15     New England luncheon specialty   22     Minced luncheon specialty choice   20     Tongue & blood   17     Blood sausage   17     Bouse   16 /   Polish sausage   20     Polish sausage   20
Lamb fries       28         Lamb tongues       17         Lamb kidneys       15	32 17	
Lamb kidneys	15	Cervelat, choice, in hog bungs37
Mutton		Thuringer20
Heavy sheep 6	6	Holsteiner29
Heavy saddles	8 7	B. U. salami, choice
Light saddles10	10	B. C. salami, new condition19
Heavy fores 4	5	Frisses, choice, in hog middles
Mutton legs12	10	Pepperoni31
Mutton loins 8	9	Mortadella, new conditions1914
Sheep tongues	18%	Italian style hams31
Mutton   Elight sheep	11	DRY SAUSAGE

# CURING MATERIALS Rock 2.82 Sugar 2.82 Raw, 96 basis, f.o.b. New Orleans 2.82 Standard gran, f.o.b. refiners (2%) 4.80 Packers' curing sugar, 250 lb. bags, f.o.b. Reserve, La. less 2% 4.00 Dextrose, in car lots, per cwt. (Cotton) 3.64 In paper bags 3.59 SAUSAGE CASINGS

SPICES
(Basis Chicago, original bbls., bags or bales.) Whole Ground
Allspice, prime
Resifted
Chili pepper 23
Powder 23
Cloves, Amboyna
Zanzibar
African
Mace, Fancy Banda
East India
East & West India Blend 57
Mustard flour, fancy 30
No. 1
Nutmeg, fancy Banda
East & West India Blend 16
Paprika, Spanish
Fancy Hungarian 43
No. 1 Hungarian 401/2
Pepper, Cayenne
Red No. 1
Black Malabar 91/4 131/4 Black Lampong 6 8
Black Lampong 6 8 Pepper, white Singapore 94 12%
Muntok 914 13
Packers 114
SEEDS AND HERBS
Ground Whole for Saus.
Caraway seed
Celery seed. French39 49
Cominos seed
Coriander Morocco bleached12
Coriander Morocco natural No. 111 13
Mustard seed, fancy yellow26
American
Marjoram French46 55
Oregano
Damation No. 1

 
 Marjoram French
 46

 Oregano
 12

 Dalmation No. 1
 75
 (Continued on page 26.)



### MARKET PRICES

New York

Choice, native Choice, native Native, commo
Choice, native Choice, native Native, comm W Native steers, Native choice Good to choice Good to choice Common to fa Fresh bologna
No. 1 ribs No. 2 rlbs No. 3 rlbs No. 3 rlbs No. 1 loins No. 2 loins No. 1 rounds No. 1 chucks No. 3 chucks No. 3 chucks No. 3 chucks No. 2 chucks No. 3 chucks
Good
DRESS Genuine spring Genuine spring Genuine spring Sheep, good Sheep, medium
Hogs, good and head on; lea Pigs, small lot head on; lea
Hogs, good an head on; lea Pigs, small lot head on; lea Fork loins, fre Shoulders, We Butts, regular Hams, Wester Picnics, Wester Pork trimming Pork trimming Spareribs
Cooked hams, Cooked hams,
Regular bams, Regular bams, Regular bams, Skinned bams, Skinned bams, Skinned hams, Skinned hams, Ficnics, 4@6 Ficnics, 6@8 Bacon, boneles Bacon, boneles Beef tongue, Beef tongue,
Fresh steer to Fresh steer to Sweetbreads, I Sweetbreads, Beef kidneys Mutton kidney

DHESSED BEEF																	
	City	I	)	r	25	18	ie	1	l								
ve.	heavy															.211/2@23	
e,	light															21 @22	
COD	to fair	e.													_	.17 @18	

Western Dressed Beef	
Native steers, 600@800 lbs	@18
Good to choice heifers	
Common to fair cows	

BEEF C	UTS	
W	estern City	
No. 1 ribs23	@24 22 @3	24
No. 2 ribs20	@21 21 @3	22
No. 3 ribs	@19 19 @:	20
No. 1 loins32	@36 36 @	40
No. 2 loins26	@32 30 @3	35
No. 3 loins20	@24 25 @3	29
No. 1 hinds and ribs20	@21 21 @3	
No. 2 hinds and ribs 18	@19 19 @3	21
No. 1 rounds	@17 @:	17
No. 2 rounds	@16 @:	16
No. 3 rounds	@15 @:	
No. 1 chucks	@15 @:	
No. 2 chucks	@14 @:	
No. 3 chucks	@13 @:	
City dressed bolognas		14%
Rolls, reg. 4@6 lbs. av	18 @:	
Rolls, reg. 6@8 lbs. av	23 @:	
Tenderloins, 4@6 lbs. av		
Tenderloins, 5@6 lbs. av	50 @	
Shoulder clode	16 @	18

Shoulder		e	l	0	đ	8				*	•		*	*			*		*							*	٠				16	0	18
							1	D	1	R		E	8	31	S	E	Ē	C	)		١	1	E		Ą	ı	_						
Good																															.16		18
Medium																															.15		16
Common			8	,	*	*		*		*		*	•	*		*	,	,	•	•	•			•	٠	•	•			*	.14	(G	19
DE	0	1	e	c	21	2	E	r	n	١	4	2		u	ß	r	E	a	D		1	n	ı	ú	r	'n		Ħ	n	ú	MB	2	

B112001		
Genuine spring	lambs, good	16 @17
Genuine spring	lambs, good to me	edium 15 @16
Genuine spring	lambs, medium	1416@15
Sheep, good		8 @10
	DECCED HA	

Hogs, good and	choice (110-140	lba.)	
head on; leaf	fat in		9.88@10.38
Pigs, small lots head on: leaf	fat in		11.50@12.50
mean on; roar			

FRESH PORK CUTS	
Pork loins, fresh, Western 10@12 lbs17	@171/2
Shoulders, Western, 10@12 lbs. av13	@131/2
Butts, regular, Western16	@161/2
Hams, Western, fresh, 10@12 lbs. av15	@16
Picnics, Western, fresh, 6@8 lbs. av12	@13
Pork trimmings, extra lean	@18
Pork trimmings, regular, 50% lean11	@111/2
40	010

		COOK	ED	HA	MS		
Cooked Cooked	hams,	choice,	skin skinle	on, ess,	fatted.	 	3

1	BMOKED	<b>MEATS</b>	
Regular hams.	8@10 lbs.	av18	@19
Regular hams.	10@12 lbs.	av	@19
Regular bams,	12@14 lbs.	av18	@19
Skinned hams,	10@12 lbs.	av193	4@20
Skinned hams,	12@14 lbs.	av	4@20
Skinned hams,	16@18 lbs.	av19	@191/
Skinned hams,	18@20 lbs.	av19	@20
Picnics, 4@6	bs. av		4@16
Pienics, 6@8	bs. av		@151/2
		19	
Bacon, boneless	s, city		4@19%
Beef tongue, li	ght		@23
Beef tongue, h	евту	28	@24

		F	AN	C	Y	MI	EA'	TS		
Fresh	steer	tong	ues.	u	ntr	im	med		16c s	a pound
Fresh	steer	tong	100,	1.	e.	trl	mm	ed	28c s	pound
										a pound
Sweet	breads	, ves	1						60c I	a pair
										a pound
Mutto	a kidi	пеув							5c	each
Livers	, beet								29c s	a pound
										a pound
Beef t	angin	g ten	der	١						a pound

			E	u	u	٦	r	n	9	u	ı	r	E	н	a	,	F	1	n	٦	r				
Shop F	at																	×				.1	.75	per	cwt
Breast	Fat							٠								٠							1.25	per	CWI
Edible	Suet																						2.25	per	cwi
Inedibl	e Sue	t																					1.75	per	CW

GREEN	CALFS	KINS		
5-9	934-1234	1214-14	14-18	18 up
Prime No. 1 veals19	2.90	3.25	3.30	3.80
Prime No. 2 veals17		2.95	3.00	3.40
Buttermilk No. 114	2.40	2.75	2.80	
Buttermilk No. 213	2.25	2.60	2.65	****
Branded gruby 12	1.80	2.10	2.15	2.20
Number 312	1.80	2.10	2.15	2.20

#### WHOLESALE DRESSED MEAT PRICES

Wholesale prices of western dressed meats, quoted by the U. S. Department of Agriculture, Agricultural Marketing Service, on October 23, 1940:

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Fresh Beef:	CHICAGO	BOSTON	NEW YORK	PHILA.
STEER, Choice				
400-500 lbs.1	\$19.00@20.50	*******		
500-600 lbs. 600-700 lbs. <sup>2</sup>	19.00@20.50	\$19.50@21.00	\$20.00@21.50 20.00@21.50	\$21.50@22.00 21.50@22.00
700-800 lbs. <sup>2</sup>	19.50@20.50	19.50@21.00	20.00@21.50	21.50@22.00
STEER, Good:		-		
400-500 lbs.1	17.00@19.50	********		
500-600 lbs	17.00@19.50	17 70 (210 70	17.00@20.50	19.50@21.50
600-700 lbs. <sup>2</sup>	17.00@19.50 17.00@19.50	17.50@19.50 17.50@19.50	17.00@20.50 $17.00@20.50$	19.50@21.50 19.50@21.50
STEER, Commercial:			21101 @ 21100	
400-600 lbs.1	14.50@17.00		14.00@16.50	15.00@18.50
600-700 lbs. <sup>2</sup>	14.50@17.00	15.00@17.50	14.50@17.00	15.00@18.50
STEER, Utility:				
400-600 lbs.1	12.00@14.50	13.50@15.00	13.00@14.00	13.00@15.00
COW (all weights):				
Commercial	12.50@14.00	13.50@14.50	13.50@14.50	
Utility Cutter	10.75@12.50	12.50@13.50 11.50@12.50	12.50@13.50 $11.50@12.50$	13.00@14.00
Cutter Canner	9.00@ 9.75	11.50@12.50	11.50@12.50	12.00@13.00
Fresh Veal and Calf:3				
VEAL, Choice:		L.		
80-130 lbs	16.00@17.50	17.00@19.00	17.00@19.00 15.50@17.50	18.00@19.00
	14.500010.50	********	10.00@11.00	********
VEAL, Good:	19 50/2/15 00	14 50/010 50	14.00@10.00	10 00 0 17 0
50- 80 lbs	14.00@16.00	14.50@16.50 15.00@17.00	14.00@16.00 14.50@17.00	16.00@17.00 15.00@16.00
130-170 lbs	12.50@14.50		13.50@16.00	
VEAL, Medium:				
50- 80 lbs	12.50@13.50	13.00@15.00	13.00@14.00	15.00@16.00
80-130 lbs	11.50@12.50	13.00@14.50 11.50@13.00	13.00@14.50 $11.50@13.50$	14.00@15.00 $13.00@14.00$
VEAL, Common:				
All weights	10.50@12.00	11.00@13.00	10.00@12.00	12.00@13.00
			20100	22100 6 20100
Fresh Lamb and Mutton:				
LAMB, Choice:				
30- 40 lbs	16.00@17.00	16.50@17.50	16.00@17.00	18.00@19.00
45- 50 lbs	15.00@16.00	16.00@17.00 15.50@16.50	15.50@16.50 15.00@16.00	17.50@18.50 17.00@18.00
50- 60 lbs	14.00@15.00	14.50@15.50	14.00@15.00	16.50@17.50
LAMB, Good:				
30- 40 lbs	14.50@16.00	15.50@16.50	15.00@16.00 14.50@15.50	17.00@18.00 17.00@18.00
40- 45 lbs	14.00@15.00	15.00@16.00 $14.50@15.50$	14.00@15.00	16.50@17.50
50- 60 lbs	13.00@14.00	14.00@15.00	13.00@14.00	16.00@17.00
LAMB, Medium:				
All weights	13.00@14.50	14.00@15.50	13.00@14.50	15.00@16.00
LAMB, Common:				
All weights	12.00@13.00	13.00@14.50	12.00@13.00	13.00@15.00
MUTTON (Ewe), 70 lbs. down:				
Good	7.00@ 8.00	8.00@ 9.00 7.00@ 8.00	7.50@ 8.50 6.50@ 7.50	7.00@ 8.00 6.00@ 7.00
Medium Common	6.00@ 7.00 5.00@ 6.00	7.00@ 8.00 6.00@ 7.00	6.50@ 7.50 5.50@ 6.50	6.00@ 7.00 5.00@ 6.00
Common	0.000	0.00@ 1.00	0.5000 0.50	5.00@ 6.00
Fresh Pork Cuts:4				
LOINS (No. 1) (Bladeless Incl.):				
8-10 lbs	14.50@15.50	16.00@17.00	16.00@17.00	16.00@17.50
10-12 lbs	14.50@15.50 14.50@15.00	16.00@17.00 $15.50@16.50$	16.00@17.00 $15.50@16.50$	16.00@17.50 16.00@17.50
16-22 lbs	13.00@14.50	13.50@15.50	15.50@16.50	15.00@16.0
SHOULDERS: Skinned, N. Y. Style:				
	11.50@12.50		13.00@14.00	
8-12 lbs			-	
BUTTS: Boston Style:	13.00@14.00		15.00@16.50	15.50@16.50
BUTTS: Boston Style: 4-8 lbs	13.00@14.00		15.00@16.50	15.50@16.50
BUTTS: Boston Style: 4-8 lbs				-
BUTTS: Boston Style: 4-8 lbs			15.00@16.50	15.50@16.

<sup>1</sup>Includes helfer 300-450 lbs. and steer down to 300 lbs. at Chicago. <sup>2</sup>Includes koshered beef sales at Chicago. <sup>3</sup>Skin on at Chicago and New York; equivalent weights skin off at Boston and Philadelphia. <sup>4</sup>Based on 50-100 pound box sales to retailers.

All quotations in dollars per hundredweight. Beef, veal, calf, lamb, and mutton prices apply to straight and calculated carcass bases.

#### **NEW SURPLUS FOOD LIST**

The U.S. Department of Agriculture has announced that lard and pork will continue on the official list of surplus foods available to families taking part in the food order stamp plan for the period which extends through October 31. These are foods which can be obtained with the blue food stamps at local stores in stamp plan areas.

Irish potatoes, a food staple of the

entire nation, have been added to the nationally listed surplus foods designated for the October 1 to 31 period. With this exception, the list of nationally des-ignated foods is the same for October as it was for the September 2 to 30 period.

Careless work in hog scalding costs money. Read "PORK PACKING," The National Provisioner's pork handbook.

# Higher Levels Follow New Tallow, Grease Activity

Market in West is stronger than that at New York, where turnover was small—Trade eyes narrowing lardtallow differential—Tallow and grease steadily withstand beginning of December lard liquidation.

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TALLOW .- The tallow market was rather quiet but strong at New York during the past week. Some additional modest sales passed at 4c for extra— possibly 250,000 lbs.—but business was kept down by smallness of offerings from first hands and refusal of consumers to come up in their ideas. The market in the West was stronger and this, plus a well sold up position on the part of local producers, made for a situation where sellers' ideas were somewhat higher. The market was 4c bid on extra and 4 1/4 c asked, and should outside commodities continue strong, tallow observers said that no important amounts would come out below 44c.

The trade is watching the lard market action closely in view of the recent relative strength in tallow. Should tallow continue to gain on lard prices, some fear that lard may again go into the soap kettle.

At New York, edible was quoted at 4%c; extra, 4c, and special, 3%c.

Notwithstanding the development of some uncertainty, brought about early this week by the beginning of liquidation in December lard, the tallow market at Chicago showed a firm to stronger tone. From midweek on, there was a fair movement of material reported, accompanied by a stronger trend. Fancy tallow sold Wednesday at 41/8c, Chicago, and prime was wanted at 4c. Same day, special was reported sold at 3%c, Chicago, although the buyer was said to have declined further offerings. Good quality No. 3 tallow sold at midweek at 3%c, Chicago. In the strong tallow market which developed on Thursday, a couple of tanks of prime tallow sold at 4%c, Chicago; sales at 44c, outside point, were reported Wednesday night. Sales of special tallow were recorded on Thursday at 4c, Chicago, prompt. Quotations in the Chicago tallow market on Thursday were as follows:

Edible	tallow			*	,	,							*			4%	@	4	1/2
	tallow																		
Prime	packers															41/8	@	4	1/4
Special	tallow											٠						4	
No. 1	tallow.		ĺ.					 										3	84

STEARINE.—The market at New York was quiet but very steady. The last sales of oleo were at 6%c, off %c from the previous week, but offerings were scanty.

At Chicago, the market was quiet and about steady. Prime was quoted at 54-6c.

OLEO OIL .- The market was dull

with interest routine at New York, but prices were steady. Extra was quoted at 64@6%c; prime, 6@6%c; and lower grades, 5%@6%c.

At Chicago, trade was quiet but prices steady. Extra was quoted at 7c.

GREASE OILS.—The market was quiet but steady at New York. No. 1 was quoted at 7c; No. 2 6%c; extra, 7½c; extra No. 1, 7½c; winter strained, 7%c; prime burning, 8½c, and prime inedible. 8c.

Grease oil quotations at Chicago were as follows: No. 1, 7c; No. 2, 6%c; extra, 7%c; extra No. 1, 7½c; extra winter strained, 7½c; special No. 1, 7%c; prime burning, 8½c; and prime inedible, 7%c. Acidless tallow oil was quoted at 7c.

NEATSFOOT OIL.—The market was steady but quiet at New York. Cold test was quoted at 15½c; extra, 7½c; extra No. 1, 7½c; prime, 7¾c, and pure, 10½c.

Neatsfoot oil quotations at Chicago were: Cold test, 15c; extra 7%c; No. 1, 74c; prime, 7½c, and pure, 10¼c.

(See page 31 for later markets.)

GREASES .- While trade was moderate at New York, the market was stronger, with yellow and house trading at 3%c, an advance of %c from the previous week. Only a few cars were said to have changed hands. Light offerings, firmness in tallow and a stronger tone in commodities in general accounted for the firmness in greases. Producers are comfortably sold up, and although consumers were not inclined to pay up for supplies, those needing greases had to meet the new market levels. Export interest was quiet, but during the week ended October 19, New York exported 115.600 lbs. of greases to Europe.

At New York, choice white was quoted at 4%c, yellow and house, 3%c; and brown, 3%@3%c.

The Chicago grease market this week showed a strong tone in the face of the beginning of liquidation in December lard, with a fair amount of activity recorded. White grease sold at 4c, Chicago, on Wednesday, advancing to 4%c on Thursday as buying interest increased. Thursday's active grease market at Chicago also saw sale of a couple of tanks of good quality yellow grease at 3%c, while brown grease was considered possibly salable at 3%c, a tank having been reported the preceding night at 34c, Chicago. Good quality No. 3 tallow sold on Wednesday at 3%c, Chicago. Grease prices at Chicago on Thursday were as follows:

Choice	white g	rease											. 41%
A-wnite	grease												376 604
B-white	grease	10.45	.:			۰		0 .	 0	0	 	۰	. 8%
Yellow	grease,	10-15	I.	I.	n.	0			 0	0		۰	. 3%
Prove	grease,	10-20	I.	1.	ц.				 0	0			.314 @3%
DIOMI	Elcusc.								 ٠		 		.34 @3%

#### BY-PRODUCTS MARKETS

(Quotations given are basis Chicago.) October 24, 1940

A nominally firmer trend developed in several parts of the by-products list this week, with the volume of trading remaining small.

#### Blood

Dried blood was last reported sold at \$2.65, Chicago. It is now in a nominal position; buyers are hesitant to take on added supplies at the higher level. Unit

Digester Feed Tankage Materials

Digester feed tankage mostly nominal; sellers now asking the outside figure. Buying and selling interests appear in a position to adhere to their own ideas of price levels.

Packinghouse Feeds

Feeds quoted same as last week. Stocks reported well sold up and demand good.

													1	Per ton
60% di	gester	tankag	e		۰		٠						ď	.\$42.50
50% m	eat and	d bone	scrap	B.		9			٠			٠	٠	. 40.00
Special	neal	bone-	meal.	• •					۰		۰	٠	۰	45.00

Bone Meals (Fertilizer Grades)
Bone meals nominally firmer; sellers

	2 400.0											
-:												Per ton
Steam,	ground,	3	&	50.	٠		 		٠	۰		 \$32.50@35.00
Steam,	ground,	2	å	26.			 	۰				 82.50@35.00

asking \$25.00

Fertilizer Materials

Nominally stronger market in fertilizer materials prevailed this week.

High grade tankage, ground 10@11% ammonia .......\$ 2.40@ 2.50 & 10c Bone tankage, unground, per ton 20.00@22.50 Hoof meal ................ 2.00@ 2.25

Dry Rendered Tankage

Strength was apparent this week in the cracklings market, accompanying a firmer tendency in tallow and greases. Sales of low test were reported in the range shown; the high test material has been less active.

Hard pressed and expeller unground.	Per to	n
up to 48% protein (low test)\$ above 48% protein (high test)	.5714@ .5214@	.60
Soft pressed pork, ac. grease and quality, ton	32.50@3	
Soft pressed beef, ac. grease and quality, ton	80 00@8	

Gelatine and Glue Stocks

Quiet situation in gelatine and glue stocks. No price changes reported this week.

	Per ton
Calf trimimngs	25.00
Sinews, pizzles	18.00
Cattle jaws, skulls and knuckles	30.00@32.50
Hide trimmings	13.00@14.00
Pig skin scraps and trim, per lb	5@5%c

Bones and Hoofs

Bones and hoofs very quiet at earlier levels. Some indication of easier trend.

					Per ton
Round shin	s, heavy			\$	50.00
	light .				47.50@50.0
Flat shins,	heavy .				42.50@45.0
	light				40 0
Blades, but	tocks, sho	oulde	ers & ti	highs	37,50@40.0
Hoofs, whi	te				55.0
Hoofs, hou	se run, u	nass	orted.		22,50@25.0
Junk bones					22,50@24.0

Animal Hair

No changes in the animal hair market, which remains firm and active.

Winter coil dried, per ton\$50.00@52.50
Summer coil dried, per ton 25.00@30.00
Winter processed, black, lb 71/4@ 81/40
Winter processed, gray, lb 7 @ 7%
Summer, processed, gray, lb 3 @ 3146
Cattle switches 3 @ 3%

#### FERTILIZER PRICES

#### BASIS NEW YORK DELIVERY

Ammoniates

Ammoniates
Ammonium sulphate, bulk, per ton, basis exvessel Atlantic ports
Unground fish scrap, dried, 11½% ammonia, 16% B. P. L., f.o.b. fish factory3.25 & 10c
Fish meal, foreign, 11½% ammonia, 10% B. P. L., c.l.f. spot
Fish scrap, acidulated, 70% ammonia, 3% A. P. A., f.o.b. fish factories2.50 & 50c
Soda nitrate, per net ton; bulk, ex-vessel         27.00           Atlantic and Gulf ports         27.00           in 200-lb, bags         28.70           in 100-lb, bags         29.40
Fertilizer tankage, ground, 10% ammonia, 10% B. P. L. bulk 2.40 & 10c Feeding tankage, unground, 10-12% ammonia, 15% B. P. L. bulk
Phosphates
Foreign bone meal, steamed, 3 and 50 bags, per ton, c.i.f\$32.50
Bone meal, raw, 4½% and 50%, in bags, per ton, c.i.f. 31.50 Superphosphate, bulk, f.o.b. Baltimore, per
ton, 16% flat 8.50

#### EASTERN FERTILIZER MARKETS

Dry Rendered Tankage

New York, October 24, 1940

All markets had a steady tone the past week and cracklings were well cleaned up at New York at 52½c per unit, with some producers asking 55c. High grade cracklings are offered at 57½c per unit, f.o.b. New York. Some sales were made of tankage at \$2.25 and 10c, f.o.b. eastern shipping points, with lowest offerings now at \$2.40 and 10c.

Blood is held at New York at \$2.35 and imported material is offered at \$2.45. There is a better demand for most fertilizer and feed materials and the markets are in a good position.

#### SEPTEMBER MARGARINE TAX

Taxes paid on oleomargarine during September, 1940 and 1939, according to the report of the U. S. Bureau of Internal Revenue, were as follows:

	1940	1939
Excise taxes Special taxes	\$72,134.25 24,025.88	\$ 78,749.82 23,796.63
Total	\$96,160.13	\$102,546.45

Quantity of product on which tax was paid during September, 1940, totaled 31,498 lbs. of colored margarine and 27,196,460 lbs. of uncolored; during September, 1939, tax was paid on 17,798 lbs. of colored and on 30,787,688 lbs. of uncolored margarine.

#### TALLOW FUTURE TRADING

Monday, Oct. 21—Close: Dec. 4.05 b; Mar. 4.20@4.40.

Tuesday, Oct. 22.—Close: Dec. 4.05 @4.25; Mar. 4.20@4.40.

Wednesday, Oct. 23.—Close: Dec. 4.05@4.25; Mar. 4.20@4.40.

Thursday, Oct. 24.—Close: Dec. 4.25 @4.40; Jan. 4.30@4.45; Mar. 4.35@4.50.

Friday, Oct. 25.—Close: Dec. 4.25@ 4.40; Jan. 4.30@4.55; Mar. 4.35@4.60; no sales.

# Cotton Oil Futures Sag As Hedging Pressure Continues

Demand fails to follow small advances and prices go to new lows—Hedge selling not pressed but persistent coconut oil steady.

OTTONSEED oil futures continued to display an unsteady undertone in modest day to day operations in the New York market. In fact, prices went into new low ground for the season again this week, notwithstanding firmness in most other commodities. Cottonseed oil futures were under pressure of hedging against the new crop movement and the lard market failed to display strength.

There was scattered outside investment demand for oil futures and the professional ring element were friendly to the constructive side, buying liberally at times. Demand failed to follow small advances and buying power dried up quickly when hedge selling made its appearance. Crude oil was barely steady in the South, but seed prices held very firm there. Reports indicated that there was very satisfactory consumer demand for oil and shortening during the week.

Hedge selling was not pressed but was rather persistent on the May delivery. There was a little scattered liquidation in December oil, but this was hardly a market influence. Pressure of crude was not aggressive and in the Southeast crude pressure continued extremely light for this season.

Even in bearish quarters it is believed that cottonseed oil futures are not far from the probable low point of the season. Refiners are expected to take the entire crude cotton oil crush at the 4c level if it is available.

COCONUT OIL.—Trade was moderately active at New York, but the market was steadier due to firmness in copra. At New York, coconut oil was quoted at 2%c in bulk. The Pacific coast market was 2%@2½c.

CORN OIL.—Offerings from crushers continued scanty, but there was some buying interest at New York at 5%c.

SOYBEAN OIL.—It was estimated that 50 to 70 tanks of crude soybean oil

#### VEGETABLE OILS

Crude cottonseed oil, in tanks, f.o.b. Val-
ley points, prompt
White deodorized, in bbls., f.o.b. Chgo6 @61/2
Yellow, deodorized 6 @61/4
Soap stock, 50% f.f.a., f.o.b. consuming points 1
Soybean oil, f.o.b. mills, in tanks3% @4
Corn oil, in tanks, f.o.b. mills 6 6514
Coconut oil, sellers tanks, f.o.b, coast 23/@21/
Refined coconut, bbls., f.o.b. Chicago 7% @8
OLFOWARC ARINE

#### OLEOMARGARINE

sold on a basis of 3%c for November-December-January delivery, basis Decatur. It was reported that large producers sold, while packers were reported the best buyers. Subsequently, the market was called 3% @3%c. Sellers were asking 4c for March forward. There was little or no activity in the soybean oil futures market at New York.

PALM OIL.—Trade was rather quiet at New York with the market steady. Nigre spot in tanks was quoted at 2%c and shipment at 2%c; 12½ per cent acid, 2%c spot and 1%c shipment; Sumatra spot, 2%c and shipment, 1%c.

OLIVE OIL FOOTS.—The market was quiet at New York but rather firm. Tanks were 9c bid and 94c asked.

PEANUT OIL.—Moderate trading in southeastern crude peanut oil was reported during the week at 4½c.

COTTONSEED OIL.—Valley crude was quoted Wednesday at 4%c paid; Southeast, 4%c bid, 4%c asked; Texas, 4%c bid at common points, Dallas, 4%c nominal.

Futures market transactions for the week at New York were:

#### FRIDAY, OCTOBER 18, 1940

		Kar	age	CI	osing
	Sales	High	Low	Bid	Asked
November				540	nom
December	6	550	545	541	544
January				543	546
February				548	nom
March	12	561	555	555	trad
April			* * * *	560	nom
May	23	570	562	561	562
June	* *			565	nom
Sales, 41 contra	acts.				
SATUR	DAY, (	СТОВ	ER 19,	1940	
November				535	nom
December	2	542	540	538	541
January				540	543
February	* *			543	nom
March	* *		***	551	553
April		***	222	554	nom
May	7	561	560	560	trad
June	* *	* * *	* * *	563	nom
Sales, 10 contr	acts.				
MOND	AY, O	CTOBE	R 21,	1940	
November				535	nom
December	5	536	536	536	539

# | November | 5 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 536 | 5

#### Sales, 73 contracts.

	TUESDA	Y, OCTOBER	22,	1940	
November				535	nom
December				539	542
January			542	542	545
February				545	nom
March		7 554 3	552	553	535
April				557	nom
May			560	561	trad
				566	nom
	30 contrac				

#### WEDNESDAY, OCTOBER 23, 1940 ember ..... 540

November					940	пош
December		4	545	545	545	548
January .					547	552
February					552	nom
March		34	560	556	560	561
April					565	nom
May		88	568	563	568	sales
June				***	572	nom
Sales, 12	6 contr	acts.				

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# Is Cold Slowing Up Production In Your Sausage

Manufacturing Room?



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#### SAUSAGE AND MEAT SPECIALTIES

has the following to say in connection with temperature and humidity in the Meat Cooler:

"Temperature in the sausage meat cooler should be from 35 to 38 degrees or higher depending on the rapidity with which the sausage maker wishes the meat to cure. Meat cures faster at higher temperatures but it deteriorates more rapidly as the low temperature check on bacterial growth is removed. A curing temperature of 38 degrees has been specified in formulas in this book.

"The percentage of relative humidity in this room is important only to the extent that it should not be so high that salt in the product will attract moisture from the air continuously. On the other hand, it should be high enough to avoid excessive shrinkage and drying out of exposed meat. Allowance can be made for such shrinkage in the amount of ice or water placed in the emulsion during processing of some types of sausage.

"A relative humidity of 80 to 85 per cent usually is found satisfactory in the sausage meat cooler."

Efficient temperature and humidity conditions are given for each department of the plant in the chapter on "Refrigeration and Air Conditioning."

Refrigeration is a decided advantage in keeping product in good condition while in the sausage manufacturing room. Dexterity of workers, however, in this room is of paramount importance and there is a limit to the amount of refrigeration which can be used without impairing their efficiency.

Time studies have established a minimum temperature at which workers in this department find no difficulty in maintaining a good speed of operations. At only 5 degrees below this point, complaints are marked and there is a noticeable reduction in output per worker.

"Sausage & Meat Specialties," The National Provisioner's new book, the first of its kind on these important subjects, contains an entire chapter on "Refrigeration and Air Conditioning" in which this important subject as well as other aids to more profitable operation are thoroughly covered.

Nineteen other chapters of "Sausage and Meat Specialties" highlight Plant Operations, Plant Layout, Sausage Trouble Shooting and Dry Sausage, and present the best of approved modern sausage practice, tested formulas for sausage and all types of specialty products.

The wide range of subjects covered in this new volume, the first of its kind, makes it an indispensable aid to every Sausage Manufacturer and Sausage Maker.

Get your order in now. One case of corrected trouble will more than repay its cost . . . \$5.00 postpaid.



### HIDES AND SKINS

Early packer hide trading at ½c up, with further ½c advance later on branded steers and branded cows—Packer calf and kips active at last weekend advance.

#### Chicago

PACKER HIDES.—The packer hide market was active and somewhat excited this week. Following the half-cent advance at the close of last week, all descriptions moved up another half-cent early this week, while trading on the following day was done at a further half-cent up on branded steers and branded cows. Reported sales so far total around 55,000 hides, mostly Oct. take-off. The trading at the close of last week ran up to around 23,000 hides, bringing the final total for last week to better than 65,000, and packers are keeping very closely sold up.

Hide futures worked up sharply late last week, with further moderate advances up to mid-week, when the spot market and futures parted company; futures sold off sharply and are now 16@33 points under last Friday, with the distant Sept. option at a discount of 56 points under Dec. Profit taking following the recent advance and some liquidation were charged with part of the decline, while pending negotiations regarding a new South American contract are thought to account partly for the weakness in the distant months.

However, the closely sold up condition of the spot market for hides, and the prospect of a good demand for the remaining Oct. hides for buyers who cannot use winter take-off, gives the market a strong appearance.

One packer sold 10,000 Sept.-Oct. native steers at 15c, and the Association moved 1,150 Oct. same basis; bid of 15c reported declined later. Extreme light native steers are quoted nominally at 15c and scarce.

Sales of 3,800 Oct. butt branded steers were made at the close of last week at 12½c, with 1,500 more early this week at 13c, followed by 6,200 more Oct. butts at 13½c. Late last week 4,000 more Oct. Colorados sold at 12c; 1,500 moved early this week at 12½c, and 6,000 sold later at 13c. One sale of 1,000 heavy Texas steers was made at 13½c; light Texas steers are nominal around 12½c, and extreme light Texas steers quoted 13@13½c nom.

One packer sold 5,000 Sept.-Oct. heavy native cows at the week's opening at 14½c; this figure since declined, with 15c asked. Late last week 6,000 Oct. northern light native cows sold at 13½c and 8,500 Oct. River point take-off at 14c; early this week, 1,500 Chgo. light native cows sold at 14c, and 1,500 St. Pauls sold later also at 14c; 1,000 Cedar Rapids take-off brought 14½c, while there is an unconfirmed report that River points have sold at 14½c;

the Association sold 2,000 Oct. light native cows at 14c. Packers sold 2,900 mostly Oct. branded cows early at 12½c, and the Association 1,000 same basis; later, 9,000 Oct. branded cows made 13c.

Two packers each sold a car Sept.-Oct. native bulls early at 9½c; branded bulls quotable a cent less.

An Iowa packer late this week sold a car butt branded steers at 13½c, a car Colorados at 13c, and two cars branded cows at 13c, all Oct. take-off.

Withdrawals of hides from Exchange warehouses during first 22 days of Oct. totalled 81,952, compared with 59,034 during same period in Sept. Warehouse stocks on Oct. 22nd were down to 508,997 hides.

OUTSIDE SMALL PACKER HIDES.—Some outside small packer all-weights around medium average weight sold early at 12c, selected, for natives, brands ½c less. With the firming of the packer market later, there was a good buying interest at 12@12½c, depending upon average and take-off, with 47 lb. avge. reported possibly salable at 12½c for good stock, while most offerings are held at 13c.

PACIFIC COAST.—The Coast market is well sold up to end of Sept. except for a few small lots, and there has been no trading since the sales of Sept. hides at 9½c flat for steers and cows, f.o.b. shipping points. However, there are orders in the market at present at 11½c flat for Oct. steers and cows but sellers are unwilling to offer until Oct. packs are closed.

FOREIGN WET SALTED HIDES.—The South American market on standard steers was established <sup>15</sup>/<sub>16</sub>c higher early this week on a sale of 4,500 Smithfield steers to the States at 85 pesos, equal to 12%c, c.i.f. New York, as against 78½ pesos or 11½6c paid last week. Further sales this basis were later made to Russia, including 2,500 Sansinenas, 4,500 Corpn. Smithfield, and 2,500 more Argentine steers, all at 85 pesos or 12%c.

COUNTRY HIDES. - The country hide market advanced irregularly, demand being centered on buff weights and extremes, with a very slow call for other descriptions. Offerings of allweights are very limited; couple cars untrimmed all-weights sold at 10 4c, flat, equal to 11c, selected, del'd Chgo., but doubtful if more could be bought this basis. Heavy steers and cows have found no outlet and are quoted nominally 81/2@9c trimmed. Buff weights quoted 11½@11½c, selected, for trimmed stock. Trimmed extremes quoted 13½@13½c, selected, with very few around. Bulls listed 7@74c; glues 8@81/2c flat; all-weight branded hides 91/2@9%c flat nom.

CALFSKINS. — Packer northern heavy calfskins were active this week at the advanced price established late

last week and previously reported. Three packers each moved a car of Oct. northern heavies, totalling about 13,000, this week at 28c. The differential on River point heavies  $9\frac{1}{2}/15$  lb. narrowed ½c when two packers each sold a car, or a total of about 9,000, at 27c. The market on light calf under  $9\frac{1}{2}$  lb. was established at  $21\frac{1}{2}$ c on the sale of 6,000 Sept.-Oct. lights by one packer, fixing the spread under the heavies at ½c more than a month back.

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Chicago city 8/10 lb. calfskins sold at 18½c for a part-car at the close of last week, and a car Detroit cities was reported at 23c; collectors have been talking a cent more but there are no bids apparent at the moment, although receipts are reported to be light. Straight countries are quoted around 15@15½c flat. Chgo. city light calf and deacons last sold at \$1.35; buyers talking \$1.25@1.30 nom. at present.

KIPSKINS.—Packer kipskins were moderately active at the prices established late last week, reported trading so far being confined to one packer. Following the sale of northern native kips late last week at 22c, 4,000 mostly Oct. southern natives sold early this week at 21c, steady basis. Same packer also sold 2,000 Oct. northern overweights at 21c, and 2,000 southern overweights at 20c. Branded kips quoted 18½@19c nom., pending trading to establish this market.

Chicago city kipskins are quoted around 19½c nom.; there has been no recent trading and a few have been offered at 20c but accumulation is slow. Straight countries quoted around 14c flat.

A few packer regular slunks were reported sold at \$1.00, in line with the bid late last week, but this bid apparently was not renewed.

HORSEHIDES. — The market is strong on horsehides, with production light and a ready market for offerings of good stock. City renderers, with manes and tails, have sold at \$5.75, selected, f.o.b. nearby points, and this figure is available for choice offerings; ordinary trimmed renderers are salable around \$5.50, del'd Chgo.; mixed city and country lots quoted \$5.00@5.25, Chgo., according to lot.

SHEEPSKINS .- Dry pelts quoted nominally 21@22c per lb., del'd Chgo., with offerings light. The present light production of packer shearlings limits trading to small lots but a fair demand is reported for good stock; one house reports sales in a small way at \$1.60@ 1.65 for No. 1's, \$1.15 for No. 2's and around 60c for No. 3's, very few of the last grade being produced. A part-car lot is offered in another direction at \$1.60 for No. 1's and \$1.05@1.10 for No. 2's, with No. 3's offered. Small packer shearlings quoted one-half to two-thirds packer values. Pickled skins are well sold up in most directions and quoted \$5.00@5.25 per doz. packer production; a few reported available at top price. Packer wooled pelts are firm, with \$2.25 per cwt. live weight basis last paid in a good way on outside packer Oct. pelts; sales in a small way reported at \$2.30@2.35 per cwt., and unconfirmed report that \$2.45 per cwt. live basis was paid on one lot; outside small packer stock quoted at usual discount.

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#### **New York**

PACKER HIDES.—Native steers advanced a full cent in the New York market when three cars of Oct. natives sold this week at 16c. One packer sold 1,200 Oct. butt branded steers at the close of last week at 12½c, and 1,500 more moved early this week at 13c, with this figure later declined. Total of 2,500 Oct. Colorados sold early this week at 12½c, but further business this basis declined. Branded steers quoted nominally ½c higher now, on a parity with western market.

CALFSKINS.—Such trading as has come to light in the eastern calfskin market this week has not been broad enough to permit anything but nominal quotations on most descriptions. Collectors sold 2,000 of the 5-7's at \$1.60, and 2,000 of 7-9's at \$2.25, but now ask higher; 9-12's are nominal around \$3.50. No packer trading has come to light; some quote packer 5-7's around \$1.90@1.95 nom., and 7-9's around \$2.60@2.65; the 9-12's sold last week at \$3.75 but now talking higher.

#### **NEW YORK HIDE FUTURES**

Monday, Oct. 21.—Close: Dec. 12.88; Mar. 12.53; June 12.43@12.50; Sept. 12.46 b; 107 lots; 3 higher to 5 lower.

Tuesday, Oct. 22.—Close: Dec. 13.15; Mar. 12.74@12.76; June 12.60@12.65; Sept. 12.60@12.66; 178 lots; 14@27 higher.

Wednesday, Oct. 23.—Close: Dec. 12.88; Mar. 12.43; June 12.18 n; Sept. 12.18 n; 267 lots; 27@42 lower.

Thursday, Oct. 24.—Close: Dec. 12.46@12.48; Mar. 12.07@12.10; June 11.90@12.00; Sept. 11.90 n; 259 lots; 28@42 lower.

Friday, Oct. 25.—Close: Dec. 12.50@ 12.53; Mar. 12.13@12.15; June 12.03 n; Sept. 12.03 b; 193 lots, 4@13 higher.

#### CHICAGO COTTON OIL

Monday, Oct. 21.—Close: Oct. 5.38 n; Dec. 5.40 ax; Jan. 5.43 ax; Mar. 5.50 ax; May 5.58 ax; cash close 5.40 n.

Tuesday, Oct. 22.—Close: Oct. 5.38 n; Dec. 5.40 ax; Jan. 5.43 ax; Mar. 5.50 ax; May 5.58 ax; cash close 5.40 n.

Wednesday, Oct. 23.—Close: Oct. 5.38 n; Dec. 5.40 ax; Jan. 5.43 ax; Mar. 5.50 ax; May 5.58 ax; cash close 5.40 n.

Thursday, Oct. 24.—Close: Oct. 5.38 n; Dec. 5.40 ax; Jan. 5.43 ax; Mar. 5.50 ax; May 5.58 ax; cash close 5.40 n.

Friday, Oct. 25.—Close: Dec. 5.40 ax; Jan. 5.43 ax; Mar. 5.50 ax; May 5.57 ax; cash close 5.40 n.

### WEEK'S CLOSING MARKETS

#### FRIDAY'S CLOSING

#### **Provisions**

Lard was weaker the latter part of the week on liquidation, lower grains, hedging and unsteady hogs. Reports were current that England bought or was going to buy about 20 million lbs. of lard. Good quantities are on order elsewhere in Europe awaiting navicerts.

#### Cottonseed Oil

Cotton oil was easier on liquidation, lard weakness and less pressure on hedges but buying power was poor and prices were within a few points of the season's lows. Southeast crude, 4¼@ 4½c lb.; Valley, 4¼c lb. bid; Texas, 4.20@4.30c lb.

Quotations on bleachable cottonseed oil at close of New York market Friday were: Dec. 5.40 ax; Jan. 5.41@5.46; Mar. 5.54@5.56; May 5.63 ax; 28 lots; closing steady.

#### Tallow

New York extra tallow, 41/4c lb.

#### Stearine

Stearine was quoted 61/sc lb.

#### Friday's Lard Markets

New York, October 25, 1940.—Prices are for export. Lard, prime western, 5%@6c; middle western, 5.00@5.10c; city, 4%@4½c; refined continent, 5%@6c; South American, 6½c; Brazil kegs, 6½@6½c; shortening 7%c.

#### CHICAGO HIDE MOVEMENT

Receipts of hides at Chicago for the week ended October 19, 1940, were 5,963,000 lbs.; previous week 4,481,000 lbs.; same week last year 4,609,000 lbs.; Jan. 1 to date, 193,113,000 lbs.; same period last year, 195,109,000 lbs.

Shipments of hides from Chicago for week ended October 19, 1940, were 6,709,000 lbs.; previous week 5,872,000 lbs.; same week last year 5,406,000 lbs.; Jan. 1 to date, 221,455,000 lbs.; same period last year, 208,354,000 lbs.

#### CANADIAN EXPORTS TO U. S.

Exports of Canadian livestock and meats to the United States in September and the first nine months of 1940:

1940	1939	1940	1939
Cattle, no 16,212	12,416	105,444	157,431
Calves, no 5,328	3.942	69,585	75,215
Hogs, no 6	17	23	88
Sheep, no 534	434	2,114	1,831
Beef, Ibs 45,700	9,900	335,700	748,100
Bacon and			
ham, lbs 30,100	42,400	286,300	426,900
Pork, 1bs200,000	95,500	2,021,300	1,513,600
Canned meats,			
lbs	28	18.587	2.081

#### **CHICAGO HIDE QUOTATIONS**

Quotations on hides at Chicago for the week ended Oct. 25, 1940, with comparisons:

#### PACKER HIDES

W	eek ended Oct. 25				
Hvy. nat. strs.	@15		@1436		@16
Hvy. Tex. strs.	@1334		@124		@154
Hvy. butt brnd'd	- 10		/4		/a
strs	@131/2		@1214		@1514
	@13		@12		@15
Ex-light Tex.	-				
strs13	@1314	12	@1214		@15
Brnd'd cows	@13		@12		@15
Hvy. nat. cows.14	16@15		@14b		@1516
Lt. nat. cows 14	@1434	1314	@14		@1514
Nat. bulls	@ 91%		@ 9		@111%
Brnd'd bulls	@ 814		@ 8		@1014
Calfskins21	1/4@28	21	@28	27	@28n
Kips, nat	@22		@22		@23
Kips, ov-wt	@21		@21n		@22
Kips, brnd'd18	14@19n	18	@19n		@20
Slunks, reg					@1.15
Slunks, hrls	@60		@60		@60

Light native, butt branded and Colorado steers 1c per lb. less than heavies.

#### CITY AND OUTSIDE SMALL PACKERS

Nat. all-wts12	@13	1114	@12	14	@1414
Branded111/2			@111%		@14
Nat. bulls	@ 8	734	@ 7%	10	@101/2
Brnd'd bulls	@ 714	7	@ 714	934	@10
Calfskins 181/2	@23	18	@23	23	@ 24
	@191/n	19	@19%n		@19
	@85n		@80n		@1.00
Slunks, hrls	@50n		@50n	45	@50

#### COUNTRY HIDES

Hvy. steers 81/4@ 9	814@ 814	11 @114
Hvy. cows 81/2 @ 9	814@ 814	11 @1114
Buffs1114@1114	10%@11	@121/2
Extremes 134 @134	1214 @13	141/4 @15
Bulls 7 @ 71/4	6% @ 7	8% @ 9
Calfskins 15 @151/2	@15	17 @171/2
Kipskins @14	131/2@14	@ 1614
Horsehides 5.00@5.75	4.80@5.50	4.50@5.25

#### SHEEPSKINS

Pkr, shearlgs.. @1.60 @1.50 @1.50 Dry pelts .....21 @22 20½@21½ 22 @23

#### **MEAT IMPORTS AT NEW YORK**

Imports for the period October 10 to October 16, inclusive, at New York were as follows:

Point of crigin	Commodity	A	mount,
_(	Canned corned beef Canned roast beef Canned corned beef hash Canned brisket beef		26,995 $37,200$ $1,824$
—Fre	sh chilled hamsh frozen hamsh pork trimmings		47,504 1,500
-Fre	sh chilled pork trimmingsh pork shoulders sh chilled pork tenderlo	ins	4,494 3,960
-Sm	nned cooked hamoked back bacon		3,220 180
—Fre	ed baconesh chilled beefed		511
—Fre	esh chilled lamb livers esh frozen beef livers led backfat and liver		300 104
—Sau	isageied pork sausage		20
-3,396	frozen veal sides quarters fresh chilled bed corned beef	eef	550,541
Uruguay-S.	P. pork butts		4,140

#### ARGENTINE BEEF EXPORTS

Cable reports of Argentine exports of beef this week up to October 25, 1940: To the United Kingdom, 28,911 quarters; to the Continent, none. A week ago, to the United Kingdom, 23,585 quarters; to the Continent, none.

#### **Properties of Stainless Steel**

(Continued from page 12.)

pressure, high-temperature piping, and is very valuable in power plant operation.

#### **Non-Magnetic and Lustrous**

An extraordinary property of the most common type of stainless steel is that it is non-magnetic. On this account it is desirable for certain electrical applications, for use around compasses and in watches. Incidentally, the permanent luster and beauty of stainless steel account for many interesting applications to which ordinary steels would be unsuited because susceptible to loss of finish by rust and corrosion.

The heat resisting quality of stainless steel has been mentioned; it is equally resistant to sub-zero temperatures. Some metals become brittle when cold, but stainless steel, even after welding and drastic forming operations, remains ductile and resistant to corrosion at low temperatures. This durability is demonstrated through service in the evaporators of mechanical refrigerators.

No other metal can take the place of stainless steel in all of its varied applications. There are other properties, too, and specialized applications without end. Its optical properties may make it suitable for use in the reflecting mirrors of telescopes. Because of its luster, its heat conductivity and its high coeffi-

cient of reflection in the ultra-violet, stainless steel will become of increasing value to the astronomer.

While the principal applications of stainless steel are in the architectural, mechanical, chemical and allied industries, its versatility promises to bring it into every field. Its resistance to corrosion may be paramount, but its other properties may be considered profitable in any problem of design. Total properties give it a range far greater than if it were merely "stainless steel."

#### GREASEPROOFING BOXES

A small sausage manufacturer who is purchasing new trucks with wood bodies for handling fresh and cured meats asks how the wood can be greaseproofed.

Wood boxes and cardboard containers may be greaseproofed by applying the following mixture:

Fish glue	9										16	oz.
Resin											2	dr.
Litharge											1/2	oz.
Kaolin											1/2	oz.
Glycerine	٠.										1/2	oz.
Water											40	oz.

The glycerine, glue, litharge and part of the water are boiled together until solution occurs; the other ingredients are then added and the solution is mixed thoroughly. The liquid is applied with a brush to the inside of wood and cardboard containers and is allowed to dry.

#### **Rancidity and Oxidation**

(Continued from page 11.)

er, in which guaiacol from gum guaiac is the active antioxidant.

#### METHODS AND TYPES

The next two papers in this symposium dealt with matters of great importance to the fat chemist, but of less interest to the lard producer. Dr. Frank C. Vibrans of the Institute of American Meat Packers discussed "Methods of Measuring the Rate and Extent of Oxidation of Fats." He pointed out that those tests which show the present state of oxidation of fats (such as the Kreis test) indicate little about their keeping qualities. Such tests take no account of the time the fat has been aging, which is an important factor in the stability of the material.

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The second paper by J. E. Meyers, J. P. Kass and G. O. Burr of the University of Minnesota was entitled "Comparative Rates of Oxidation of Isomeric Linolenic Acids and their Esters." An interesting point brought out by this study was the fact that free fatty acids oxidize more readily than their esters (the fats from which the fatty acids were derived). This should explain the well-known fact that lards high in free fatty acids turn rancid more rapidly than lards low in free fatty acids. These latter compounds evidently have a catalyzing effect.

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SPECIAL X Say Flour absorbs and holds the natural ails and juices of the meat and definitely aids nutritive value. Improved slicing qualities, better appearance and finer flavor increase the sales appeal of Sausage, Meat Loaves and Loaf Specialties. Try SPECIAL X in your formulas and note the difference . . . send for your free trial sample today.

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Detachable louvers, designed to provide additional shielding and greater eye comfort and freedom from glare



PREVENTS OVERHEAD GLARE

Louvers are designed to provide additional shielding, greater eye comfort and freedom from glare.

in drafting rooms, laboratories, offices and many industrial and commercial locations, are now available for "Stream-Liter" flourescent lamp fixtures, it has been announced by the Benjamin Electric Co., Chicago. Shielding angle is increased to approximately 23 degs. in all directions, it is reported by the company.

Louvers are of steel, designed in the so-called "egg crate" construction, and are finished in special high reflector factor white enamel. They are welded into a rigid assembly at each interlocking point and the entire unit is welded to a rectangular frame rail which fits inconspicuously into the bead of the reflector. Sturdy, yet light in weight, they are not easily damaged or bent during cleaning or relamping.

Two spring clamps on each side rail snap over the reflector bead to hold the louvers in position. Unsnapping the clamps make it possible to remove the louvers for relamping the fixtures.

#### **MEAT PLANT HOIST**

A new kind of hoist for meat plant use has been placed on the market by Robbins & Myers, Inc., Springfield, O. Base frame is of welded steel channel construction requiring little superstructure frame work to support it. Drum is of steel pipe and steel plate flanges welded into a unit. Drum shaft bracket is also of welded steel and bolts to the channel base. A worm drive unit housed within an oiltight casing drives the drum.

Worm is of heat treated nickel steel, and is ground to size. Worm gear is of special chill cast bronze, and has hobbed teeth of 30-deg. pressure angle. Worm drive is of the self-locking type so that load is held safely without regard for the operator. A magnetic disc brake controls the load automatically, preventing any sudden drop of product.

A choice of methods is offered: Either by control moisture-proof push button with magnetic contractors, or rope-operated from controllers. An upper limit switch prevents over-travel of the hook. Motor is of the totally-enclosed, high torque, hoist duty construction and can handle usual and unusual loads. Hoist chain is made of welded steel links to which a drop forged steel shackle is attached. A swivel drop forged steel hook hangs in the shackle for easy handling.

#### FOUR-CYLINDER ENGINE

The Ford truck line for 1941 includes a four-cylinder engine designed for service where economy is paramount. It develops 30 h.p. at 2,800 r.p.m. and 84 ft.-lbs. torque at 1,000 r.p.m. Cylinders are 3.187 by 3.75 in. with a total displacement of 119.5 cu. in.

Improvements on the 85- and 95-h.p. V-8 engines are also announced by Ford. These include new bolted-on camshaft gears and valve stems are hardened further where they fit into guides. Engine vacuum connection is located on manifold riser for improved operation of windshield wiper and distributor governor. Either of these V-8 engines is available in the 158-in. and 134-in. wheelbase conventional and cab-overengine trucks.

#### **BLOCK AND PIPE INSULATION**

A new 1500-deg. F. insulating material known as L-W Superex has recently been introduced by Johns-Manville. Furnished in both block and pipe covering form, this new material was developed by the J-M research laboratories and is said to represent a marked improvement in conductivity and strength for an insulation in the service temperature range above 600 degs. Fahrenheit.

L-W Superex is offered for use generally in stationary and marine power plant equipment and piping, the blocks being suitable for use in industrial furnaces, ovens, kilns, roaster regenerators, high temperature mains, flues and stacks, where insulation will be subjected to temperatures between 600 and 1500 degs. F. The sectional form is intended for piping and headers within the same range of operating temperature.

This insulation is of the moulded diatomaceous silica type and weighs only 20 lb. per cu. ft. The blocks are furnished 3 in., 6 in., 9 in., and 12 in. wide in standard lengths of 18 in. and 36 in. and in thicknesses from 1 in. to 4 in. Curved blocks are also available. The pipe insulation is supplied to fit standard pipe sizes, in sections or segments 3 ft. long and up to 2½ in. thick. L-W Superex is marked with green ends to distinguish it from 85 per cent magnesia and H-T (1,900 deg.) Superex.

Watch the Classified Advertisements page for bargains in equipment.



NEW SEMI-TRAILER UNIT FOR BULKY LOADS

This 95-h.p. V-8 tractor-trailer unit is suitable for handling big, bulky loads. Packers who must meet special conditions, such as the transportation of full loads in one direction and light loads in the other, may have their tractor equipped with a two-speed axle to reduce operating cost when hauling a light load.

# LIVESTOCK MARKETS Weekly Review

#### Fall Pig Crop Down— Fewer Hogs in 1941

THE seasonal increase in hog marketings now in progress is expected to continue into December according to the U. S. Bureau of Agricultural Economics. This will be followed by a seasonal reduction in marketings in the late winter. For the 1940–41 marketing year, which began October 1, hog marketings are expected to be about 10 per cent smaller than in 1939–40. The percentage of decline in the 1940 fall pig crop is somewhat greater than in the 1940 spring crop. As a consequence, hog marketings probably will be reduced relatively more from a year earlier in the last half of the 1940–41 marketing year than in the first half.

The supply of beef and veal produced in 1941 probably will not differ greatly from the 1940 production, with an increase more likely than a decrease. In view of prospective substantial improvement in consumer demand for meats, the general level of cattle prices in 1941 is expected to be higher than in 1940.

#### **Lamb Supply About Same**

Slaughter supplies of sheep and lambs in the 1940–41 fed-lamb marketing season (December to April) probably will not show much change from a year earlier. Prices of lambs in the coming fed-lamb season, however, are expected to average higher than in the 1939–40 season. Stronger consumer demand for meats and higher prices for wool and pelts will be supporting factors to prices of slaughter lambs and sheep during next year.

Hog prices in 1940-41 are expected to average materially higher than in 1939-40. The rise will reflect not only the decreases in hog marketings but also the substantial improvement in

domestic consumer demand in prospect. Export demand for pork and lard in 1940-41 probably will be little, if any, better than in 1939.

### Canada Hopes For Larger Bacon Contract for 1941

MONTREAL.—Canada's bacon surplus is now of small proportions. In recent weeks, shipments to Britain have been well in advance of the arranged purchases of 5,600,000 lbs. per week, sometimes being as high as 7,840,000 lbs., and it has been suggested that the British may agree to increase the quota.

Canadian bacon sales to the United Kingdom in the coming year are expected to increase approximately 40 per cent, with weekly shipments from the Dominion varying between seven and eight million lbs. instead of between five and six million.

An agreement by which Britain undertook to buy between five and six million lbs. of bacon weekly expires at the end of this month. It is believed that the Canadian mission, headed by J. G. Gardiner, Minister of Agriculture, now in London, is negotiating for increased bacon deliveries overseas.

While confidently expecting larger bacon purchases from the United Kingdom, there is some doubt that the present price of \$18.01 per short hundred weight can be maintained. It is pointed out, for example, that Britain could have bought her bacon at a considerably lower rate last year had she been paying only the Canadian market rate. Never, in the past year, has the Canadian domestic price of bacon been at the level paid by Britain.

A contract for seven to eight million lbs. weekly would, it is believed, satisfy hog men and would just about take care of the increased hog production.

#### INTERNATIONAL SHOW SOON

Final event on the continent's annual livestock show and agricultural fair calendar is the International Live Stock Exposition and Horse Show, which will celebrate its forty-first anniversary this fall from November 30 to December 7. It will be held in the International Amphitheatre at the Chicago Union Stock Yards.

Exhibitors will be paid approximately \$100,000 in cash premiums, plus numerous trophies and medals that will be offered in many of the breed competitions,

The classification includes 30 breeds of beef cattle, draft horses, sheep, and swine. Stockmen have until November 1 to file entries.

#### CORN BELT DIRECT TRADING

(Reported by U. S. Department of Agriculture, Agricultural Marketing Service.)

Des Moines, Ia., Oct. 24, 1940.—At 16 concentration points and 10 packing plants in Iowa and Minnesota hog receipts continued above the previous October record. Current prices were steady to 10c lower, but occasionally sows were 5c up.

Hogs, good	d to																			
160-180	lb.										×				. !	\$4.	85	0	5.	80
180-200	lb.															5.	60	@	6.	05
200-270	lb.																90			
270-300	1b.																80			
300-330	lb.																70			
330-360	lb.							*				*				5.	60	@	5.	95
Sows:																				
330 lbs.	do	V.	n													\$5.	45	a	5.	75
330-360	1b.															5.	40	a	5.	75

Receipts of hogs at Corn Belt markets for week ended with October 24, 1940:

										This week.	Last week.
Friday.	Oct.	18								20,500	33,900
Saturday	. Oct	. 19.				ì	ì	ì		21,300	29,400
Monday.											35,600
Tuesday.	Oct.	22.								22,700	28,000
Wednesd											28,600
Thursday											29,500

# KENNETT-MURRAY



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#### **NEW YORK LIVESTOCK**

Livestock prices at New York, Wednesday, October 23, 1940:

100

nual fair cock will this r 7.

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reious vere ally

kets 940:

Last week. 3,900 9,400 5,600 8,000 8,600 9,500

940

CATTLE:	
Steers, common and medium	@nom. 6.25@ 6.50 5.25@ 5.75 7.25@ 7.50 6.25@ 6.75
CALVES:	
Vealers, good and choice\$ Vealers, culms and medium Vealers, culls Calves, common and good	11.50@14.00 $8.50@10.50$ $6.50@7.50$ $7.75$
HOGS:	
Hogs, good and choice, 181-202-lb\$ Packing sows, 268-lb	6.60 4.85
LAMBS:	
Lambs, good, 80-lb \$ Lambs, common, 65-lb	9.00 6.50 2.75@ 3.50

Receipts of salable livestock at Jersey City public market for the week ended with October 19:

	Cattle	Calves	Hogs*	Sheep
Salable receipts Total, with directs		2,438 $11,705$	311 28,327	1,770 36,844
Previous week:				
Salable receipts Total, with directs *Including hogs at	7,485		$\frac{455}{28,567}$	3,088 51,178

#### SOUTHEASTERN LIVESTOCK

Combined receipts of livestock, as reported by the Agricultural Marketing Service, at seven southern packing plants, for week ended October 19:

	Cattle	Calves	Hogs
Week ended Oct. 19	.2,708	1,511	8,072
Previous week		715 827	7,281 11,564

Southeastern area slaughter hogs, bulk quotations, soft hog basis, Oct. 22:

Hogs, medium	to	cl	10	ic	e:														
240 lbs. and	01	rei													.\$5.	5.50@		@5.75	
180-240 lbs.			. ,							•					. 5.	75(	$a_6$	.00	)
150-180 lbs.						•	*		•	٠			*	*	. 5.	500	@5	.70	5
130-150 lbs.							٠			*	*				. 0.	UU	w o	.20	)
Sows, medium	an	d	go	od	1:														
240 lbs. and	OV	er.						* 1							. 4.	500	@4	.75	5
180-200 lbs.									 *		×			*	. 4.	750	@5.00		
150-180 lbs.											×	 			. 4.	50	$g_4$	. 7:	5

#### STOCKERS AND FEEDERS

Stocker and feeder shipments received in the Corn Belt states in September, and nine months' totals:

	Cottle and Colors
	Cattle and Calves Sept. Sept. 1940 1939
Stockyards Direct	222,594 195,614 163,802 158,331
Total, September	386,396 803,459 353,945 714,271
	Sheep and Lambs
Stockyards	176,734 157,031 774,607 664,886
Total, September	951,341 821,917

#### SOUTHERN LIVESTOCK KILL

Livestock slaughtered in packing plants and abattoirs during September, 1940, in the states of Alabama, Florida and Georgia, with comparisons:

	Sept., 1940	Sept., 1939	9 mos., 1940	9 mos., 1939
Cattle	41,353	40,183	287,867	301,566
Hogs	19,962	18,714 72,270	113,259 869,854	111,315 845,184
	698	384	6.034	5,910

#### LIVESTOCK PRICES AT LEADING MARKETS

Livestock prices at five leading western markets, Thursday, October 24, 1940, as reported by U. S. Department of Agriculture, Agricultural Marketing Service:

as reported by U. S. Depa	rtment of	Agriculture,	Agricultur	al Marketin	g Service:
Hogs (soft & oily not quoted):	CHICAGO	NAT. STK. YDS.	OMAHA	KANS. CITY	ST. PAUL
BARROWS AND GILTS:					
Good-choice: 120-140 lbs	5,25@ 6.00 5.75@ 6.25 6.10@ 6.40 6.25@ 6.45 6.35@ 6.50 6.35@ 6.50 6.35@ 6.50	5.35@ 5.80 5.75@ 6.10 6.00@ 6.30 6.25@ 6.35 6.25@ 6.35 6.25@ 6.35 6.20@ 6.35	\$ 5.15@ 5.75 5.50@ 6.00 5.85@ 6.15 6.00@ 6.15 6.00@ 6.10 6.00@ 6.10 6.00@ 6.10 6.00@ 6.10	\$ 4.75@ 5.50 5.10@ 5.75 5.35@ 6.10 5.75@ 6.15 6.00@ 6.15 6.05@ 6.15 6.05@ 6.15 6.05@ 6.15 6.05@ 6.15 6.05@ 6.15	\$ 5.00@ 5.40 5.15@ 5.60 5.60@ 5.85 5.70@ 5.95 5.90@ 6.00 6.00 only 6.00 only 5.90@ 6.00 5.85@ 5.95
160-220 lbs	5.25@ 6.25	5.15@ 6.10	5.10@ 5.85	5.10@ 6.00	5.50@ 5.90
sows:					
Good and choice: 270-300 lbs. 300-330 lbs. 330-360 lbs.	6.15@ 6.30	6.05@ 6.25	5.90@ 6.00 5.90@ 6.00 5.85@ 5.90	5.90@ 6.10 5.90@ 6.10 5.85@ 6.00	5.65 only 5.65 only 5.65 only
360-400 lbs. 400-450 lbs. 450-500 lbs.	5.90@6.10	5.65@ 6.00	5,85@ 5.90 5.80@ 5.90 5.75@ 5,85	5.75@ 5.90 5.65@ 5.85 5.50@ 5.75	5.65 only 5.65 only 5.65 only
Medium: 250-500 lbs			5.35@ 5.75	5.40@ 5.90	5.40@ 5.55
PIGS (Slaughter): Med. & good, 90-120 lbs.	4 50@ 5 13	5.00@ 5.15			
Slaughter Cattle, Vealers and Ca		, 0.00g 0.10			
STEERS, choice: 750-900 lbs. 900-1100 lbs. 1100-1300 lbs. 1300-1500 lbs.	10 00@19 50	0 11.50@13.00 0 11.75@13.25 0 12.00@13.50 0 12.00@13.50	11,25@12,75 11,50@13,25 11,75@13,25 12,00@13,25	11.50@13.00 11.75@13.25 12.00@13.25 12.00@13.25	11.50@12.75 11.50@13.25 11.75@13.25 11.75@13.25
STEERS, good: 750- 900 lbs. 900-1100 lbs. 1100-1300 lbs. 1300-1500 lbs.	10.50@12.00 10.75@12.50 10.75@12.75	10.00@11.75 10.25@12.00 10.50@12.00	9,75@11.50 10.00@12.00 10.00@12.00 10.00@11.75	9.75@11.75 10.00@12.00 10.00@12.00 10.00@12.00	9.75@11.50 9.75@11.50 9.75@11.75 9.75@11.75
STEERS, medium: 750-1100 lbs	8.00@10.50 8.00@10.7	7.50@10.25 7.50@10.50	7.75@10.00 8.00@10.00	7.50@10.00 7.50@10.00	7.75@ 9.75 7.75@ 9.75
STEERS, common: 750-1100 lbs			6.25@ 8.00	6.00@ 7.50	6.00@ 7.75
STEERS, HEIFERS AND M Choice, 500-750 lbs Good, 500-700 lbs		0 10.75@12.00 5 9.50@10.75	10.50@12.00 9.25@10.50	10.75@12.00 9.25@10.75	11.25@12.50 9.75@11.25
HEIFERS: Choice, 750-900 lbs Good, 750-900 lbs Medium, 500-900 lbs Common, 500-900 lbs	11.75@12.7 10.25@11.7	5 10.75@12.00 5 9.50@10.75	10.50@12.00 9.50@10.50 7.50@ 9.50 6.00@ 7.50	10.75@12.50 9.25@10.75 7.00@ 9.25 5.75@ 7.00	10.75@12.00 9.25@10.75 7.50@ 9.25 5.50@ 7.50
COWS, all weights:					
Good Medium Cutter and common Canner	5.75@ 6.7 4.50@ 5.7 3.50@ 4.5	5 5.50@ 6.00 5 4.50@ 5.50	6.50@ 7.25 5.50@ 6.50 4.50@ 5.50 4.00@ 4.50	6.50@ 7.50 5.75@ 6.50 4.50@ 5.75 3.75@ 4.50	5.50@ 6.50 4.00@ 5.50
BULLS (Ylgs. Excl.), all we Beef, good Sausage, good Sausage, medlum Sausage, cutter and com.	7.00@ 7.2 6.50@ 7.1 6.00@ 6.5	5 6.00@ 6.50 0 5.50@ 6.00	6.50@ 7.00 6.25@ 6.75 6.00@ 6.25 5.25@ 6.00	6.35@ 6.75 6.35@ 6.60 5.75@ 6.35 4.75@ 5.75	6.50@ 7.00 6.25@ 6.50 5.50@ 6.25 4.25@ 5.50
VEALERS, all weights:  Good and choice Common and medium Cull	7.50@10.0	0 8.00@10.25	8.50@10.00 6.00@ 8.50 5.00@ 6.00	6.00@ 9.00	8.00@10.50 6.00@ 8.00 4.00@ 6.00
CALVES, 400 lbs. down: Good and choice Common and medium Cull	6.00@ 8.0	0 6.00@ 7.50	7.00@ 9.00 6.00@ 7.00 5.00@ 6.00	5.50@ 7.25	7.00@ 8.50 5.00@ 7.00 3.50@ 5.00
Slaughter Lambs and Sheep:1					
*Good and choice	9.40@ 9.6	0 9.00@ 9.50	9.25@ 9.40	9.25@ 9.50	9.00@ 9.25
*Medium and good Common	8.25@ 9.2 6.50@ 8.0	5 8.00@ 8.75 0 6.50@ 7.75	9.25@ 9.40 8.00@ 9.10 6.75@ 8.00	9.25@ 9.50 8.00@ 9.00 6.50@ 7.75	8.25@ 8.85 6.25@ 8.00
YEARLING WETHERS (she Good and choice		5 7.00@ 8.00	7.25@ 8.25		
Good and choice Medium EWES (shorn):	6.50@ 7.6	5 7.00@ 8.00 5 6.25@ 7.00	7.25@ 8.25 6.50@ 7.25	7.00@ 7.75 6.25@ 7.00	7.25@ 8.00 6.50@ 7.25
Good and choice Common and medium	3.50@ 4.5 2.50@ 3.5	0 3.00@ 4.00 0 1.75@ 3.00	3.00@ 4.00 1.75@ 3.00	3.25@ 4.15 2.00@ 3.25	3.00@ 3.75 1.50@ 3.00

<sup>&</sup>lt;sup>1</sup> Quotations based on animals of current seasonal market weights and wool growth. Shorn animals with less than 60 days' wool growth quoted as shorn. \*Quotations on slaughter lambs of good and choice and of medium and good grades, as combined, represent lots averaging within the top half of the good and the top half of the medium grades, respectively.

#### CHICAGO PACKER PURCHASES

#### Purchases of livestock in Chicago by the principal packers for the first three days this week were 18,788 cattle, 2,640 calves, 41,177 hogs and 8,205 sheep.

# TRIMMING OFF THE PROFITS Do your men trim the profits off your pork loins? Read chapter 6 of "PORK PACKING." The National Provisioner's

pork plant handbook.

#### PACKERS' PURCHASES

Purchases of livestock by packers at principal centers for the week ending Saturday, October 19, 1940, as reported to The National Provisioner:

#### CHICAGO

Armour and Company, 7,771 hogs; Swift & Company, 8,651 hogs; Wilson & Co., 8,594 hogs; Western Packing Co., Inc., 1,881 hogs; Agar Packing Co., 4,652 hogs; shippers, 3,851 hogs; others, 27,658 hogs.

Total: 39,142 cattle; 4,221 calves; 62,452 hogs; 13,090 sheep.

#### KANSAS CITY

C	attle	Calves	Hogs	Sheep
Armour and Company	4.379	772	4.678	5.062
Cudahy Pkg. Co		479	2,175	5,081
Swift & Company :	2,715	773	3.077	4,051
Wilson & Co	2,555	705	2,611	5,031
Indep. Pkg. Co			300	*****
Kornblum Pkg. Co				
Others	6,947	1,064	2,430	3,158
Total2	0,003	3,793	15,271	22,383

	Cattle and		
	Calves	Hogs	Sheep
Armour and Company	5,222	6,588	2,839
Cudaby Pkg. Co		4,259	3,853
Swift & Company	3,626	3,747	2,793
Wilson & Co	1,544	3,421	1,340
Others		6,288	

Cattle and calves: Eagle Pkg. Co., 19; Greater Omaha Pkg. Co., 117; Geo. Hoffmann, 29; Lewis Pkg. Co., 876; Nebraska Beef Co., 711; Omaha Pkg. Co., 214; John Roth, 121; South Omaha Pkg. Co., 696; Lincoln Pkg. Co., 597.
Total: 17,096 cattle and calves; 24,303 hogs; 10,825 sheep bought direct.

EASI	B.T.	TOUIS		
	Cattle	Calves	Hogs	Sheep
Armour and Company		1,889	10,150	5,366
Swift & Company	3,880	3,310	10.497	4.417
Hunter Pkg. Co	1,502	45	5,377	1,075
Heil Pkg. Co	****	*****	2,403	
Krey Pkg. Co	****		4,554	
Laclede Pkg. Co		*****	2,670	
Sieloff Pkg. Co			830	
Shippers	8,172	1.531	17.831	750
Others	3,623	211	3,764	1,023
Total	20,964	6,986	58,076	12,631

#### ST. JOSEPH

	Cattle	Calves	Hogs	Sheep
Swift & Company Armour and Company Others	3,062	404 444 187	9,255 8,292 473	7,199 3,812 1,126
Total	8,234	1,035	18,020	12,137

Not including 3,666 hogs and 2,980 sheep bought direct.

#### SIOUX CITY

Cattle	Calves	Hogs	Sheep
Cudahy Pkg. Co 2,375	82	5.095	3,472
Armour and Company 2,395	76	5,213	3,630
Swift & Company 2.279	83	3,064	2,502
Shippers 3,528	115	1,408	698
Others 333	5	47	8
Total10,910	361	14,827	10,305

#### OKLAHOMA CITY

Sheep	Hogs	lves	Ca	Cattle			
1,316 1,032 46	8,272 8,270 1,316	1,363		2,203 2,039 296		& Co	Wilson
2,394	7,858	557	2,	4,538		******	Total
bought	hogs	2,563	and	cattle	58	including	Not direct.

WICH	ITA		
Cattle		Hogs	Sheer
Cudahy Pkg. Co 2,077		5,238	1.842
Wichita D. B. Co 12		*****	
Dunn-Ostertag 68		102	
Fred W. Dold 136		556	1
Sunflower Pkg. Co 74		383	
Pioneer Pkg. Co 8			*****
Keefe Pkg. Co		*****	

Total ...... 2,381 726 6,279 1,843 Not including 646 hogs bought direct.

#### DENVER

	Cattle	Calves	Hogs	Sheep
Armour and Company	782	139	1.967	10,349
Swift & Company	712	138	1.829	5.624
Cudahy Pkg. Co	769	85	1.061	2,525
Others	2,107	162	1,759	8,342
Total	4,370	524	6,616	26,840

#### ST. PAUL

Cattle	Calves	Hogs	Sheep	
Armour and Company 2,922	2,850	24,328	13,769	
Rifkin Pkg. Co 679 Swift & Company 5,385	132	90 880	10 001	
United Pkg. Co 2,652	223	32,770	16,091	
Cudahy Pkg. Co 1,071	1,519	****	*****	
Others 2,558	459	****	*****	
Total14,267	9,601	57,098	29,860	

#### FORT WORTH

Cattle	Calves	Hogs	Sheep
Armour and Company 2,594 Swift & Company 2,212 Blue Bonnet 253 City Pkg. Co 159	2,722 2,246 86 6	2,744 2,176 1,295 934	2,732 3,095
Rosenthal Pkg. Co 54	10	66	15
Total 5,272	5,070	7,215	5,842
INDIANA	POLIS		
Cattle	Calves	Hogs	Sheep
Kingan & Co.   1,647     Armour and Company   509     Hilgemeier Bros.   9     Stumpf Bros.   205     Stark & Wetzel   205     Wabnitz and Deters   31     Maass Hartman Co.   30     Shippers   2,834     Others   1,338     Total   6,953	316 210 33 42 14 1,709 352 2,676	23,746 3,036 974 158 650 424 25,975 282 55,245	2,463 
CINCINI	IATI		
Cattle	Calves	Hogs	Sheep
S. W. Gall's Sons. E. Kahn's Sons Co	14 180 146 273 721	6,319 381 5,560 3,840 3,825 203	388 1,719  65  18 2,727 196
Total 3,986	1,338	26,273	5,113
Not including 1,178 catt sheep bought direct.	le, 5,950	hogs a	ind 125

#### RECAPITULATIONS

CAT	TLE		
	Week ended Oct. 19	Prev. week	Cor. week, 1939
Chicago Kansas City Omaha* East St. Louis St. Joseph Stoux City Oklahoma City Wichita Denver St. Paul Milwaukee Indianapolis Cincinnati Ft. Worth	20,964 8,234 10,910 4,538 2,381 4,370 14,267 4,810 6,953 3,986	41,761 17,915 15,264 22,201 7,621 10,437 4,025 2,091 4,570 14,236 3,837 6,488 3,851 4,929	32,693 15,994 14,911 18,136 6,286 7,402 6,059 3,351 4,089 14,006 5,047 5,679 4,511 6,219
Total	162,836	159,226	144,383
H0			
Chicago Kansas City Omaba East St. Louis St. Joseph Stioux City Oklahoma City Wichita Denver St. Faul Milwankee Milwankee Cincinati Circinati Total	24,303 58,076 18,020 14,827 7,858 6,279 6,616 57,098 14,269 55,245 26,273 7,215	58,711 15,723 21,458 53,056 18,660 14,606 8,943 6,686 5,518 48,673 10,736 53,637 24,741 5,519 346,667	50,669 27,424 48,075 16,462 15,573 11,716 7,210 6,874 51,504 13,449 49,327 21,311 6,104 338,714
SHI			
Chicago Kansas City Omaha East St. Louis St. Joseph Sioux City Oklahoma City Wichita Denver St. Paul Milwaukee Indianapolis Cinclinati Pt. Worth	22,383 10,825 12,631 12,137 10,305 2,394 1,843 26,840 29,860 2,845 10,216 5,113 5,842	17, 681 23, 770 13, 818 15, 406 14, 125 10, 790 2, 543 2, 254 64, 815 23, 231 2, 781 11, 473 5, 029 5, 735	18, 895 26, 773 13, 909 13, 812 12, 940 10, 190 2, 262 1, 555 22, 848 24, 064 3, 574 9, 607 4, 226 7, 717
* Cattle and calves. †	. 166,324 Not incl	213,451 ading dire	172,372 ects.

#### **HOG-CORN RATIO**

The hog-corn ratio for September was 10.5 compared with 9.4 in August and 10.5 in September, 1939. Average price of hogs at Chicago in September was \$6.45 per cwt., and for corn was 64.5c per bu. In August, the hog price was \$6.21 per cwt. and corn was 66c per bu. In September, 1939, average price of hogs was \$7.44 per cwt., and corn, 54c per bu.

#### CHICAGO LIVESTOCK

Statistics of livestock at the Chicago Union Stock Yards for current and comparative periods.

#### †RECEIPTS Cattle Calves Hogs Sheep

Mon., Oct. 14.     .14,946       Tues., Oct. 15.     5,223       Wed., Oct. 16.     .12,311       Thur., Oct. 17.     6,888       Fri., Oct. 18.     .1,250       Sat., Oct. 19.     .1,500	1,763 916 1,067 913 369 300	21,425 25,206 23,978 18,445 10,139 5,000	9,238 5,190 6,155 6,859 3,967 2,800
*Total this week	5,328 4,892 6,571 6,814	104,193 94,688 89,365 76,168	34,209 43,324 35,194 46,434
SHIPMEN	ITS		
Cattle	Calves	Hogs	Sheep
Mon., Oct. 14     2,457       Tues., Oct. 15     2,406       Wed., Oct. 16     4,023       Turs., Oct. 17     2,911       Fri., Oct. 18     950       Sat., Oct. 19     100	199 176 166 176 100	1,746 291 208 390 1,087	637 494 258 405 330

Total this week ... 12,847 Previous week ... 15,347 705
Year ago ... 14,406 1,057
Two years ago ... 15,089 1,661 3,722 5,103 6,310 5,907 2,124 1,950 3,583 9,349 \* Including 661 cattle, 781 calves, 42,248 hogs and 20,986 sheep direct to packers from other points.

† All receipts include directs.

#### OCTOBER AND YEAR RECEIPTS

Receipts thus far this month and year to date

MICH COMPRIS	OMB.			
	-Oct	ober-	Y	ear
	1940	1939	1940	1939
Cattle1		112,682	1,507,675	1,450,266
Calves	13,951	19,677	209,573	258,250
Hogs2		205,892	4,020,736	3,124,378
Sheep1	06.624	109,265	1.696,962	2.057.464

#### WEEKLY AVERAGE PRICE OF LIVESTOCK

									Cattle	Hogs	Sheep	Lambs	
Week	er	de	d	0	c	t.	11	9.	\$11.90	\$6.40	\$3.75	\$9.10	
									11.70	6.25	3.50	9.30	
										7.10	3.45	9.35	
1938									10.25	7.55	3.25	8.10	
										10.05	4.00	10.05	
1936										9.45	3.25	8.50	
										9.70	3.60	9.05	
A ==	46	101	. 1	n	96				910 PK	<b>89.75</b>	<b>\$2.50</b>	00.00	

#### SUPPLIES FOR CHICAGO PACKERS

														Cattle	Hogs	Sheep
Week	0	n	ıd	le	d	ı	0	e	t.	19	9.	 		.29,261	100,471	32,085
Previo	DU	IS	1	W	e	e	k							.27,442	88,874	41,538
1939										۰				.24,795	81,638	32,083
1938												 		.29,805	69,581	37,786
1937												 		.32,336	75,585	34,889
1936														.31,569	99,605	51,561

#### HOG RECEIPTS. WEIGHTS AND PRICES

	No.	Av. Wt	—Pr	ices—
	Rec'd	lbs.	Top	Av.
Week	ended Oct. 19104,200	243	\$6,75	\$6.40
	us week 94,687	248	6.60	6.25
1939 .	89,365	250	7.50	7.10
	76,168	229	8.00	7.55
	84,186	237	11.00	10.05
1936	110,226	222	10.25	9.45
1935 .	91,539	240	10.55	9.70
A ==	1025 1020 00 200	995	80 45	29.75

Receipts and average weight for week ending Oct. 19, 1940, estimated.

#### CHICAGO HOG SLAUGHTERS

Hog tion fo													r	1	re	ed	le	r	a	1	inspec
Week	endi	ng	0e	te	b	eı	18	3.		 											110,91
Previou	18 W	reek					 					۰									. 96,81
Year a	ngo				*							×			*						.100,70
Two ye	ars	ago	٠.		٠		*		*								*				97,54

#### CHICAGO HOG PURCHASES

and shippers week ended Thursday, Octob	
Week ended Oct. 24	Prev. week
Packers' purchases 60,841 Shippers' purchases 3,623	57,444 4,243
Total 64,464	61,687

#### CALIF. INSPECTED SLAUGHTER

Sta	L	t	e	-	i	n	13	3	p	e	1	0	ti	9	d	k	ci	il	1		f	)]	r	1	S	ie	p	t	.6	91	n	a	b	er:
Cattle																																		57,298
Calves				,			. ,	Ų,	. ,	. ,	. ,	.,					,			,														28,415
Hogs				,								,																		٠			,	83,487
Sheep	*								.,	.,		. ,	. ,	,								٠												107,910

Inspected meat food products made:

			lbs.
Sausage .		 	3,035,04
Pork and	beef	 	2,842,19
Lard and	substances	 ******	1,306,53
Total .		 ******	7,183,78

#### SLAUGHTER REPORTS

Special reports to THE NATIONAL PROVI-SIONER show the number of livestock slaughtered at 16 centers for the week ended October 19, 1940.

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9.10 9.30 9.35 8.10 9.05 8.50 9.05

9.00

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Av.

6.25 7.10 7.55 0.05 9.45 9.70

8.75

ding

pec-

0,702 7,548 kers

rev. reek 7,444 1,243

ER

7,298 8,415 3,487 7,910

5,044 2,199

1940

#### CATTLE

end Oct.	ed Prev.	week, 1939
Chicago† 19,	898 20,978	23,902
Kansas City* 23,	796 21,207	19,654
Omaha* 17,	086 15,808	17,425
	792 13,617	12,157
	305 7,267	6,214
	668 6,922	5,163
	107 2,788	5,013
	342 9,913	13,050
	869 2,151	1,429
	770 1,747	1,534
	724 9,371	9,693
	153 6,468	9,479
	435 4,585	4,383
Denver 3,	919 4,621	4,228
St. Paul 11,	638 10,914	10,612
Milwaukee 3,	981 3,820	3,935
Total	483 149 177	147 871

#### • Cattle and calves. † Not including directs.

#### HOGS

Chicago	96,818	100,702
Kansas City 46,909	42,158	42,099
Omaha 37,476	26,595	31,504
East St. Louis1 75,117	59,719	52,402
St. Joseph 20,389	19,838	15,982
Sioux City 18,048	15,340	14,117
Wichita 6,925	6,990	10,055
Fort Worth 7,215	5,519	6,104
Philadelphia 18,781	17,445	19,836
Indianapolis 22,798	25,544	18,714
New York & Jersey City. 54,563	53,126	58,204
Oklahoma City 10,421	11,651	12,384
Cincinnati 23,447	22,832	18,456
Denver 7,152	6,385	6,511
St. Paul 57,098	48,673	51,504
Milwaukee 14,194	10,716	13,375
	-	

#### SHEEP

Chicago† 9.143	13,834	17.664
Kansas City 22,383	23,770	26.773
Omaha 15,338	23,244	18.814
East St. Louis 11,881	14,655	12,547
St. Joseph 14,000	14,953	12,237
Sioux City 10,319	10,573	9,666
Wichita 1,843	2,254	1,555
Fort Worth 5,842	5,735	7,717
Philadelphia 2,799	3,296	3,668
Indianapolis 2,875	2,896	3,148
New York & Jersey City 49,298	68,102	64,636
Oklahoma City 2,394	2,543	2.262
Cincinnati 2,182	3.182	4.039
Denver 7,888	8,605	8,204
St. Paul 29,860	23,231	24,064
Milwaukee 1,602	1,970	1,855
Total189,647	222,843	218,849

<sup>†</sup> Not including directs.

#### RECEIPTS AT CHIEF CENTERS

Receipts for week ended October 19 were as follows:

At 20 markets:		Hogs	Sheep
Week ended Oct. 19		460,000	310,000
revious week	268,000	440,000	422,000
939	250,000	418,000	310,000
938	268.000	349,000	329,000
937	317,000	356,000	359,000
At 11 markets:			Hogs
Week ended Oct. 19			.371.000
revious week			.373.000
939			
938			
937			
936			
At 7 markets:	Cattle	Hogs	Sheep
Week ended Oct. 19	200.000	326,000	199,000
revious week	195,000	300,000	256,000
939		288,000	193.00
938		281,000	248.00
937		237,000	225,000
936		350,000	283.00

#### PACIFIC COAST LIVESTOCK

Receipts for 5 days ended Oct. 18:

	Catle	Calves	Hogs	Sheep
Los Angeles	4,766	1,667	2.575	2,926
San Francisco	800	47	1,507	2,364
Portland	1,745	265	4,140	2,230

#### MEAT SUPPLIES AT EASTERN MARKETS

(Reported by the U. S. Department of Agriculture, Agricultural Marketing Service)

#### WESTERN DEFESTED WEATS

	WESTERN DRESSED MEAT	5		
	NE	W YORK	PHILA.	BOSTON
STEERS, carcass	Week ending October 19, 1940	9,115	2,386	2,771
	Week previous	9,233	2,289	2,715
	Same week year ago	10,191	2,704	2,647
COWS, carcass	Week ending October 19, 1940	1,176	1,497	3,226
	Week previous	1,260	1,440	3,192
	Same week year ago	1,369	822	2,518
BULLS, carcass	Week ending October 19, 1940	394	701	16
	Week previous	378	774	32
	Same week year ago	318	521	10
VEAL, carcass	Week ending October 19, 1940	11,383	1,212	1,748
	Week previous	10,080	1,541	1,042
	Same week year ago	12,417	1,210	839
LAMB, carcass	Week ending October 19, 1940	41,335	15,135	21,528
	Week previous	40,060	17,266	21,385
	Same week year ago	50,082	16,025	19,693
MUTTON, carcass	Week ending October 19, 1940	1,604	887	1,357
	Week previous	1,982	458	1,060
	Same week year ago	1,913	391	1,953
PORK CUTS, 1bs.	Week ending October 19, 1940	,300,357	408,725	258,820
	Week previous	2,561,385	525,703	392,708
	Same week year ago	1,960,651	322,819	441,242
BEEF CUTS, 1bs.	Week ending October 19, 1940	377,511	******	
	Week previous	475,534	******	******
	Same week year ago	466,395		*****
	LOCAL SLAUGHTERS			
CATTLE, head	Week ending October 19, 1940	7.724	1,869	
	Week previous	9.371	2,151	******
	Same week year ago	9,693	1,429	*****
CALVES, head	Week ending October 19, 1940	18,714	2,313	******
	Week previous	15,208	2,894	******
	Same week year ago	14,900	2,347	
HOGS, head	Week ending October 19, 1940	51,476	18,781	*****
	Week previous	53,126	17,445	*****
	Same week year ago	57,862	19,836	
SHEEP, head	Week ending October 19, 1940	49,298	2,799	*****
	Week previous	68,102	3,296	
	Same week year ago	64,636	3,668	

Country dressed product at New York totaled 3,414 yeal, 7 hogs and 241 lambs. Previous week 2,314 yeal, 5 hogs and 149 lambs in addition to that shown above.

#### WEEKLY INSPECTED KILL

Hog slaughter for the week ended October 18 was the heaviest in more than seven months. Total kill reached 755,241 head during the week compared with 656,642 head during the previous week and 672,889 head during the same week in 1939.

Number of animals processed in 27 centers for week ended October 18:

	Cattle	Calves	Hogs	Sheep
New York Area1	7,724	13,734	54,563	49,298
Phila. & Balt	3,699	782	34,400	1,726
Obio-Indiana Group <sup>2</sup>	9,396	3,272	64,534	9,200
Chicago <sup>8</sup>	28,201	5,586	110,917	52,502
St. Louis Area	14,844	9,312	75,117	17,552
Kansas City	15,566	6,338	46,909	21,659
Southwest Group <sup>5</sup> .	16,929	9,781	40,803	26,004
Omaha	15,693	1,218	37,476	22,276
Sioux City	7,220	279	18,048	13,703
St. Paul-Wisc. Group <sup>6</sup>	21,521	24,096	122,649	39,740
Interior Iowa & So. Minn. *	14,254	6,900	149,825	45,133
Total	155,047	81,298	755,241	298,793
Total prev.				

Packing plants included in the above tabulation slaughtered during the calendar year 1939 approximately 74% of the cattle, calves, and hogs, and 82% of the sheep and lambs that were slaughtered under Federal inspection that year.

#### CANADIAN LIVESTOCK PRICES

#### STEERS Week

	ended Oct. 17	Last	week 1989
Toronto	\$ 8.35	\$ 8.35	\$ 7.75
Montreal	8.00	7.75	7.75
Winnipeg	7.75	8.00	6.75
Calgary	7.00	7.50	6,50
Edmonton	7.00	7.50	6.00
Prince Albert	6.50	7.00	5.75
Moose Jaw	. 6.75	6.50	6.00
Saskatoon	7.00	7.50	5.80
Regina	6.25	6.50	6.00
Vancouver	7.65		6.75

#### VEAL CALVES

Toronto\$11.50	\$11.50	\$11.00
Montreal 11.50	11.00	10.00
Winnipeg 9.00	9.00	8.00
Calgary 7.50	8.00	6.50
Edmonton 8.50	8,50	7.50
Prince Albert 7.50	7.50	7.00
Moose Jaw 7.50	8.00	7.00
Saskatoon 8.00	7.75	7.50
Regina 7.50	7.50	7.00
Vancouver 9.00	***	7.25

#### HOG CARCASSES\*

Toronto\$12.00	\$12.15	\$ 9.351
Montreal 12.00	12.00	9.75
Winnipeg 11.15	11.15	8,75
Calgary 10.85	10.95	8.60
Edmonton 10.65	10.45	8.50
Prince Albert 10.85	10.70	8.45
Moose Jaw 10.80	10.80	8,50
Saskatoon 10.80	10.80	8.45
Regina 10.85	10.85	8.50
Vancouver		***

Official Canadian hog grades are now on carcass basis, quotations for B1 Grade; Grade A, \$1.00 premium. ¹ Quoted on ewe weight basis.

#### GOOD LAMBS

Toronto	9.50 \$ 9.25	\$ 9.60
Montreal	9.00 8.75	9.50
Winnipeg	7.75 7.75	8.25
Calgary	8.50 8.25	7.65
Edmonton	8.00 7.50	8.00
Prince Albert	7.00 7.00	7.00
Moose Jaw	7.75 7.35	8.00
Saskatoon	7.15 7.00	7.35
Regina	7.00 7.00	7.50
Vancouver	9.00	9.00

# CLASSIFIED ADVERTISEMENTS

Advertisements on this page, 10c per word per insertion, minimum charge \$2,00, Position wanted, special rate 7c per word, minimum charge \$1.40. Count address or bea number as four words. Headline 70c extra.

#### **Position Wanted**

SAUSAGE FOREMAN-Expert sausagemaker with 26 years' experience wishes permanent position as foreman with middle-sized or large firm, preferably in the East. Can furnish best references. Available at once. Box W-44, THE NATIONAL PRO-VISIONER, 407 So. Dearborn St., Chicago, Ill.

POSITION AS ASSISTANT superintendent or curing foreman. Experienced in all pork operations, large, small or medium sized plants. Employed, good reason for desiring change. A-1 references. Box W-51, THE NATIONAL PROVISIONER, 407 So. Dearborn St., Chicago, Ill.

SALESMAN OR BROKERAGE — 1947 years' branch house manager including five years Philadelphia, Pa. Box W-49, THE NATIONAL PROVISIONER, 407 So. Dearborn St., Chicago, Ill.

#### Sales Manager

or assistant to owner. Many years in charge of sales and provisions. Aggressive, responsible. Employed at present, good reason for making change. A-1 references. Box W-52, THE NATIONAL PROVISIONER, 407 So. Dearborn St., Chicago,

#### Business Opportunities

FOR SALE—interest in small, going packinghouse in Southwest. Box W-46, THE NATIONAL PRO-VISIONER, 407 So. Dearborn St., Chicago, Ill.

FOR SALE: COMPLETELY equipped, small, modern packinghouse located in Michigan. Oldest concern in district. Sell in hundred mile radius. Low labor overhead. All offers considered. Owner in ill health. Box W-55, THE NATIONAL PROVI-SIONER, 407 So. Dearborn St., Chicago, Ill.

THIS SPACE offers you a chance to present your story to the Meat Packing Industry-you may want to dispose of your plant or you may want to make new connections with a new partner for investment purposes. In any case you may do this cheaply and quickly here. THE NATIONAL PROVISIONER, 407 So. Dearborn St., Chicago, Ill.

#### For Sale

Small meat plant, fully equipped for manufacturing, room for slaughtering. Near Philadelphia. Sacrifice.

Chas. Abrams 13 So. 2nd St. Walnut-3846 Philadelphia, Pa.

#### Men Wanted

WANTED: SUPERINTENDENT by packer, must have practical experience in killing. cutting, curing and smoking high grade products; give reference and state salary expected. Box W-53, THE NATIONAL PROVISIONER, 407 So. Dearborn St., Chicago, Ill.

WANTED:-HIGHLY EXPERIENCED rendering superintendent or foreman who has had considerable experience in dry rendering. State salary and experience with reference. Box W-54, THE NATIONAL PROVISIONER, 407 So. Dearborn St.,

#### Miscellaneous

MEAT EXPERT HAS perfected and now is introducing the newest method tenderizing and mellowing meats while curing, producing a new and better flavored ham much in demand. Write J. L. Wilde, % THE NATIONAL PROVISIONER, 407 So. Dearborn St., Chicago, Ill.

#### **Equipment Wanted**

Packing Equipment Wanted

Wanted for user 2—50 and 100 lb. Silent Cutters 2—50 and 100 lb. Stuffers: 2—100 and 200 lb. Mixers; 3—Grinders; Filter Press. Lard Cooling Roll. No dealers. W-718, THE NATIONAL PRO-VISIONER, 300 Madison Ave., New York City.

#### Equipment for Sale

#### Refrigerating Equipment

We offer for sale the following latest type equipment from one of our modern ice plants: Ammonia compressors, condensers, shell brine coolers, coils, electric air compressors and air blowers, electric water pumps, electric cranes and hoists, motors,

Midwest Ice Company 3920 W. Harrison St. Chicago, Ill

Are You Looking for a Posi-

Do You Need a Good Man? LIST YOUR NEEDS WITH

> THE NATIONAL PROVISIONER

#### Equipment for Sale

#### **Meat Packing Equipment** Offerings

10—Aluminum St. Jack. Kettles, 40, 80, 80, 100 gal.

1—Meakin horiz. continuous Crackling Press, with
tempering apparatus, 30 h.p. Motor, 800 to 1000
lb. cap. per hour
5—0'x19' Revolving Digesters or Percolators,
4000 Ft. Drag, Scraper and Screw Conveyor.
10—Bartlett & Snow vertical Tankage Dryers
25—Dopp Kettles, all sizes
40—Hammer Mills, Crushers, Grinders, Pulverizers
4—Ice Breakers and Crushers
2—Brecht 200 lb. Stuffers, without tubes.
1—Brecht Enterprise No. 156 Meat Grinder.
1—Brecht 180" Filter Press
1—Hand Operated Fat Cutter
Ask for "Consolidated News" listing our large

Ask for "Consolidated News" listing our large stock. Send us your inquiries—we desire to serve you. What have you for sale? We buy from a single item to a complete plant.

CONSOLIDATED PRODUCTS CO. INC. 14-19 Park Row, New York City, N. Y.

#### The Bunn Tying Machine

is used very generally by packers for tying sausage boxes, bacon squares, picnics, butts, etc. Ties 20-30 packages per minute. Saves twine. Write for our 10-day free trial offer. B. H. Bunn Co., 7609 Vincennes Ave., Chicago, Ill.

#### **Used Equipment for Sale**

4' x 7' Rendering Cooker, Motor...\$600 Viscera Table, 22 monel pans....\$275 Small Stock Chain Conveyor, Com-

plete .....\$275 200-lb. Mixer, 3 h.p.....\$200 2 h.p. Enterprise Grinder.....\$100 Electric Ham Pump, 2 Lines.....\$ 35 U. S. Electric Slicer.....\$ 40 Link Belt Bacon Slicer, A-1....\$125 4-shelf Bake Oven.....\$ 60 Steel Trolleys, any size @ . . . . . \$ .25 Stainless Steel, H.Q. Trolleys....\$.65 40-gal. Jacketed Scrapple Kettle. .\$ 50 75-gal. Scrapple Kettle.....\$ 25

Chas. Abrams

13 So. 2nd St. Walnut-3846 Philadelphia, Pa.

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STRAIGHT AND MIXED CARS OF BEEF AND PROVISIONS

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F. C. Rogers Co. Philadelphia, Pa.

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Packing Plants: OTTUMWA, IOWA; SIOUX FALLS, SOUTH DAKOTA; TOPEKA, KANSAS



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1940

Philadelphia Scrapple a Specialty

ohn J. Felin & Co., Inc.

4142-60 Germantown Ave., Philadelphia, Pa. New York Branch: 402-10 West 14th St.

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PORK PRODUCTS - SINCE 1876 The H. H. MEYER PACKING CO. Cincinnati, Ohio

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A full line of Fresh Pork ● Beef ● Veal Mutton and Cured Pork Cuts

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PORK AND BEEF PACKERS

Main Plant, Indianapolis

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BLACK HAWK HAMS AND BACON

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Straight and Mixed Cars of Packing House Products

THE RATH PACKING CO.

WATERLOO, IOWA



Main Office and Packing Plant Austin, Minnesota

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The finest Polish-Style Ham on the market today by hundreds of satisfied Tobin customers!



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FORT DODGE, IOWA

# THE CUDAHY PACKING CO.

PRODUCERS, IMPORTERS AND EXPORTERS OF

## Sausage Casings

221 NORTH LA SALLE STREET

CHICAGO, U. S. A.

#### Wilmington Provision Company

TOWER BRAND MEATS

Slaughterers of Cattle, Hogs, Lambs and Calves

U. S. GOVERNMENT INSPECTION

WILMINGTON

DELAWARE

# THE CASING HOUSE BERTH. LEVI & CO., INC. BERTH. CHICAGO BUENOS AIRES AUSTRALIA WELLINGTON

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The firms listed here are in partnership with you. The products and equipment they manufacture and the services they render are designed to help you do your work more efficiently, more economically and to help you make better products which you can merchandise more profitably. Their advertisements offer opportunities to you which you should not overlook.

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#### HONEY BRAND

Hams - Bacon Dried Beef

#### HYGRADE'S

Original West Virginia Cured Ham Ready to Serve

#### HYGRADE'S

Frankfurters in Natural Casinas

#### HYGRADE'S

Beef - Veal Lamb - Pork



#### **CONSULT US BEFORE** YOU BUY OR SELL

Domestic and Foreign **Connections** Invited!

### HYGRADE FOOD PRODUCTS CORP.

30 Church Street, New York, N. Y.

#### Superior Packing Co.

Price

Quality

Service

Chicago



St. Paul

#### DRESSED BEEF **BONELESS BEEF and VEAL**

Carlots

Barrel Lots

#### COOKING TIME REDUCED

33% BY GRINDING IN THE

M&M HOG **CUTS RENDERING** COSTS

Reduces fats, bones, car-casses, etc., to uniform fineness. Ground prod-content. Reduced cook-

ing time saves steam, power and labor. There's an M&M HOG of the size and type to meet your requirement. Write.

#### MITTS & MERRILL

Builders of Machinery Since 1854
1001-51 S. WATER ST., SAGINAW, MICH.

# Always meant a lot

# NOW (H) MEANS MORE THAN EVER BEFORE . . .

The improved emblem of The Associated Business Papers is symbolic of its greater significance to advertisers. Of Its Standards of Practice, guide-posts of ethical business paper publishing for twenty three years, have this year been made stronger and more enforceable than ever before. Of Apace with the times, its member publications are constantly making their editorial pages more dynamic increasing their hold on their reader-audiences. Of Singly in relation to your markets, and collectively as an association, these modernized A-B-P-A-B-C publications deliver an abundance of what it takes to produce resultful advertising.

#### THE NATIONAL PROVISIONER

Member of The Associated Business Papers, Inc.

# THERE IS NO SUBSTITUTE FOR By Mail, Air-mail KNOWING!

or Wire, Daily Information on

#### **Provisions**

Green and S. P. Reg. Hams S. P. Boiling Hams Green and S. P. Skd. Hams Picnics, Green and S. P. Bellies, Green and S. P. D. S. Bellies, Clear and D. S. Fat Backs D. S. Rough Ribs Other D. S. Meats **Export Cuts** Fresh Pork Cuts Barrelled Pork and Beef

Cash Refined Neutral **Futures** 

#### Sausage Materials

Pork Trimmings Boneless Beef Dressed Beef for Boning Pork and Beef Offal Beef Ham Sets

**Tallow and Grease** Oleo Oil and Stearine Cottonseed Oil Hides and Calfskins Fertilizer Materials

#### **Market Statistics**

Hog Markets **Provision Stocks** Export Shipments Domestic Shipments

all handled by the market authority of the industry-THE NATIONAL PROVISIONER

#### Only when you KNOW the markets can you sell or buy intelligently.

Subscribers to THE NATIONAL PROVI-SIONER DAILY MARKET SERVICE neither sell nor buy by "rule of thumb" methods. Theirs are no "hit or miss" transactions. They KNOW THE MARKET and sell or buy accordingly.

If you save only 1/4c per lb. by KNOWING the market you save \$75. No wonder active traders watch the markets closely through THE NA-TIONAL PROVISIONER DAILY MARKET SERVICE. Since it is an accepted basis of settlement in trading, you don't have to take anybody else's word for it.

If you save 1c per lb. by KNOWING the market you save \$300 on a car of product. And if you are not informed you may easily lose that amount.

And the same thing is true of the seller. If he KNOWS the market and he gets the market price he may get as much as \$300 per car additional in a difference of only 1c per lb. If he is not informed he can just as easily lose that much.

THE NATIONAL PROVISIONER DAILY MARKET SERVICE coming to you every full trading day of the week will pay for itself many times over.

Write for a sample copy and complete information today.

### Daily Market Service

37 W. Van Buren St.

**CHICAGO** 

1940

# There are WAYS to buy ADVERTISING SPACE

1 The HAPHAZARD WAY

by rumor,
guesswork,
and
hasiy judgmeni

2 The AUDITED WAY

by the facts presented in

**ABC REPORTS** 

TIME was when buying advertising space seemed like groping in the dark. With no facts to serve as guide through the mysteries of circulation, you had to rely on rumor and hearsay. You had to pick your papers by guess-work . . . and hope for the best results as far as sales were concerned.

That day is past. Discerning advertisers now buy space with as sound a basis of fact as they buy a ton of coal or a dozen of eggs.

The source of this enlightenment is the A.B.C. report—the complete official, audited report of circulation facts. A.B.C. reports reveal and analyze NET PAID CIRCULATION—how large it is, where it is, how it was secured.

It is your insurance that you will get what you pay for. It protects the buyer and the honest publisher. It is made possible by over 2000 publishers, advertisers and advertising agencies. Together they provide you with this insurance policy. Use it. It costs you nothing. It may save you much.

We will be glad to give you a copy of our latest A.B.C. report, containing the facts by which you can judge the value of this paper.



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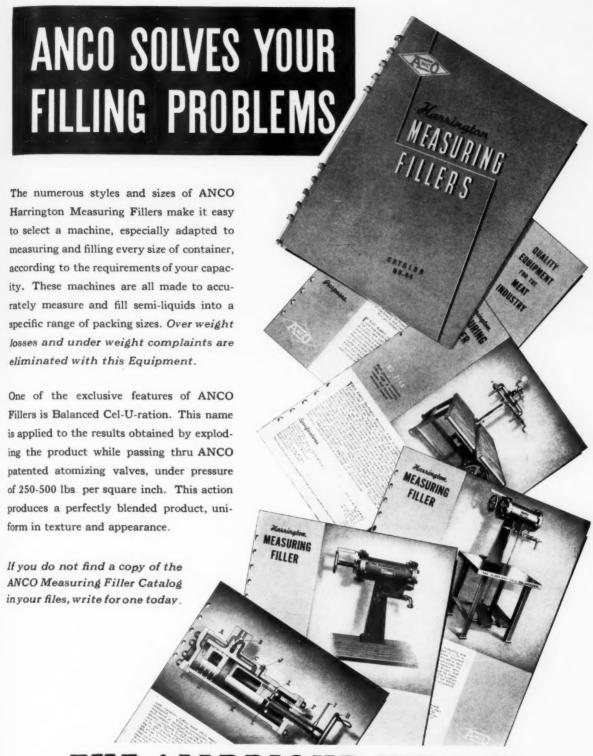
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THE NATIONAL PROVISIONER

An A. B. C. Publication

A.B.C. = Audit Bureau of Circulations = FACTS as a yardstick of advertising value



# THE ALLBRIGHT-NELL CO.

5323 S. WESTERN BLVD., CHICAGO, ILLINOIS
117 LIBERTY STREET, NEW YORK, N. Y.

# Whatever the Grime

the clean-up job is done quickly and efficiently with PRIDE WASH-ING POWDER. Those long-lasting, heavy-duty, soap suds dissolve clinging greases and stubborn stains quickly and easily. Pride Washing Powder is packinghouse-produced for packinghouse use. Packed in 200-lb. barrels, 125-lb. drums, and 25-lb. pails. No matter where your plant is located, there is a local Swift representative ready to serve you.

SWIFT & COMPANY

INDUSTRIAL SOAP DEPARTMENT

PRIDE WASHING POWDER

